Curriculum Vitae

KAI ZHENG

Department of Informatics
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Education

Ph.D., Information Systems, Carnegie Mellon University, Pittsburgh, PA, 2006

> Dissertation: "*Design, Implementation, User Acceptance, and Evaluation of a Clinical Decision Support System for Evidence-based Medicine Practice*;" Advisors: Herbert S. Diamond, Michael P. Johnson (co-chair), David Krackhardt, Rema Padman (co-chair); Recipient, *The William W. Cooper Doctoral Dissertation Award in Management or Management Science*

B.E., Electrical Engineering, Shanghai Jiaotong University, Shanghai, China, 1999

Positions

Current

- Chief Research Information Officer, UC Irvine Office of Data and Information Technology, University of California, Irvine, Irvine, CA, 2021–present
- Co-Director, Collaboratory for Health and Wellness, Institute for Precision Health, University of California, Irvine, Irvine, CA, 2021–present
- Director, UC Irvine Public Health Informatics & Technology Workforce Development Program, University of California, Irvine, Irvine, CA, 2021–present
- Adjunct Professor, Department of Psychiatry, Michigan Medicine, University of Michigan, Ann Arbor, MI, 2021–present
- Professor, Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, Irvine, CA, 2020–present
- Adjunct Professor, Department of Emergency Medicine, School of Medicine, University of California, Irvine, Irvine, CA, 2020–present
- Director of Biomedical Informatics, Institute for Clinical and Translational Science (ICTS), University of California, Irvine, Irvine, CA, 2017–present (Co-Director, 2016–2017)

Affiliations

- Affiliated Faculty, Institute for Future Health, University of California, Irvine, CA, 2020–present
- Program Member, Chao Family Comprehensive Cancer Center, UC Irvine Health, University of California, Irvine, CA, 2019–present

Past

- Co-Lead, Bio-Repository and Biomedical Informatics Core, Michigan Medicine–Peking University Health Science Center Joint Institute for Translational and Clinical Research (Michigan Medicine–PKUHSC JI), Ann Arbor, MI, 2011–2015

- Associate Professor, Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, Irvine, CA, 2016–2020

- Adjunct Associate Professor, Department of Emergency Medicine, School of Medicine, University of California, Irvine, Irvine, CA, 2016–2020

- Research Health Science Specialist, Health Services Research and Development, Veterans Affairs San Diego Healthcare System, San Diego, CA, 2013–2018

- Director, Health Informatics Program, Schools of Information and Public Health, University of Michigan, Ann Arbor, MI, 2015 (Interim Director, 2014–2015)

- Adjunct Professor, Peking University Clinical Research Institute, Peking University Health Science Center, Beijing, China, 2013–2015

- Associate Professor, Department of Health Management and Policy, School of Public Health; Associate Professor, School of Information; Associate Adjunct Professor, Division of Nursing Business and Health Systems, School of Nursing, University of Michigan, Ann Arbor, MI, 2012–2015

- Faculty Affiliate, Kidney Epidemiology and Cost Center, University of Michigan, Ann Arbor, MI, 2012–2015

- Visiting Associate Professor, Center for Biomedical Informatics Research, School of Medicine, Stanford University, Stanford, CA, 2012–2013

- Faculty Affiliate, Institute for Healthcare Policy and Innovation, University of Michigan, Ann Arbor, MI, 2011–2015

- Faculty Affiliate, Center for Entrepreneurship, University of Michigan, Ann Arbor, MI, 2010–2015

- Faculty, Biomedical Informatics Core (2007–2015) & Patient Recruitment Core (2011–2015), Michigan Institute for Clinical and Health Research, University of Michigan, Ann Arbor, MI

- Faculty Affiliate, Center for Computational Medicine and Bioinformatics, University of Michigan, Ann Arbor, MI, 2006–2015

- Assistant Professor, Department of Health Management and Policy, School of Public Health (2006–2012); Assistant Professor, School of Information (2006–2012); Assistant Adjunct Professor, Division of Nursing Business and Health Systems, School of Nursing (2009–2012), University of Michigan, Ann Arbor, MI

- System Analyst (internship), Center for Appalachian Network Access, School of Computer Science, Carnegie Mellon University, Pittsburgh, PA, 2004

- Research Assistant and Technical Lead, Department of Medicine, Western Pennsylvania Hospital, Pittsburgh, PA, 2001–2006

- Business Analyst (internship), Mckinsey & Company, Beijing, China, 1999

- Webmaster (part-time), Global Sources Information Centre, China Europe International Business School (CEIBS), Shanghai, China, 1997–1999

Honors & Awards

- Yawen Guo, Student Paper Competition Finalist & Second Place, The American Medical Informatics Association 2022 Annual Symposium (AMIA '22), Washington DC, 2022

- Diana Forsythe Prize Finalist, with Matthew Willis, Leah Hein, Zhaoxian Hu, Rajiv Saran, Marissa Argentina, Jennifer Bragg-Gresham, Sarah Krein, Brenda Gillespie, & Tiffany Veinot, 2022

- Noyce Faculty Fellow, The Robert Noyce Teacher Scholarship Program, Irvine Initiative in AI, Law, and Society, University of California, Irvine, 2022

- **Chair, Clinical Information Systems Working Group, American Medical Informatics Association (AMIA), 2019–2020**

- Tera Reynolds, Outstanding Student Paper in the Field of Consumer and Pervasive Health Informatics, The American Medical Informatics Association 2020 Annual Symposium (AMIA '20), 2020

- Lu He, Student Paper Competition Finalist, The American Medical Informatics Association 2020 Annual Symposium (AMIA '20), Co-advised with Yunan Chen, 2020

- Best Poster Award, with Tingjue Yin & Lu He, The 2019 Southern California Natural Language Processing Symposium (SoCal NLP '19), Los Angeles, CA, 2019

- Lu He, Best Student Paper Nomination, The 2019 World Congress of Medical and Health Informatics (MedInfo '19), Lyon, France, 2019

- Yu Chen, Student Paper Competition Finalist & Outstanding Student Paper in the Field of Consumer and Pervasive Health Informatics, The American Medical Informatics Association 2018 Annual Symposium (AMIA '18), Co-advised with Yunan Chen & Steven Cramer, San Francisco, CA, 2018

- **Elected Fellow of the American Medical Informatics College, 2018**

- Clara Caldeira, Student Paper Competition Finalist & Third Place, The American Medical Informatics Association 2017 Annual Symposium (AMIA '17), Co-advised with Yunan Chen, Washington DC, 2017

- Distinguished Paper Award, with VG Vinod Vydiswaran, Qiaozhu Mei, & David Hanauer, The American Medical Informatics Association 2014 Annual Symposium (AMIA '14), Washington DC, 2014

- Best Poster Award, with Danny Wu, Tiffany Veinot, & David Bradley, The 2014 Workshop on Interactive Systems in Healthcare (WISH '14), Washington DC, 2014

- Best Paper Selection, with Brian Hilligoss, Yearbook of Medical Informatics 2014, International Medical Informatics Association (IMIA), 2014

- Best Paper of the Year, with David Hanauer, John Aberdeen, Samuel Bayer, Benjamin Wellner, Cheryl Clark, & Lynette Hirschman, MITRE Corporation, 2014

- Best Poster Award (Third Place), with David Hanauer, Qiaozhu Mei, Patricia Clark, & Lawrence An, The National Cancer Institute and the Centers of Excellence in Cancer Communication Research (CECCRs) 2013 Grantee Meeting, Ann Arbor, MI, 2013

- Outstanding Poster Award, with Tala Dahbour, Billy McCloskey, Jim Lyddy, Tom Schmitt, Judi Brooks, Angela Lukomski, Beaudry Kock, Katherine Rosenblum, Prachi Shah, Jennifer Smith, Elise Hodges, & Renee Lajiness-O'Neill, Spring Research Symposium, Undergraduate Research Opportunity Program (UROP), University of Michigan, Ann Arbor, MI, 2013

- Best Paper Selection (Paper #29, #57), Yearbook of Medical Informatics 2012, International Medical Informatics Association (IMIA), 2012

- Distinguished Poster Award, with Suresh Bhavnani, Michelle Massey, Elisa Michaud-Hanson, & Chris Weber, The American Medical Informatics Association 2012 Annual Symposium (AMIA '12), Chicago, IL, 2012

- **American Medical Informatics Association (AMIA) New Investigator Award, 2011**

- Best Paper Selection (Paper #30, #38), Yearbook of Medical Informatics 2011, International Medical Informatics Association (IMIA), 2011
- Runner-up, with David Hanauer, Bad Designs on Campus Competition, University of Michigan, Ann Arbor, MI, 2010
- Journal of the American Medical Informatics Association Most Cited Papers 2009–2010
- Distinguished Poster Award Nomination, with Xiaomu Zhou & Mark Ackerman, The American Medical Informatics Association 2009 Annual Symposium (AMIA '09), San Francisco, CA, 2009
- Distinguished Poster Award, with David Hanauer, The American Medical Informatics Association 2008 Annual Symposium (AMIA '08), Washington DC, 2008
- Best Paper Award Nomination, The 2007 World Congress on Health and Biomedical Informatics (MedInfo '07), Brisbane, Australia, 2007
- **The William W. Cooper Doctoral Dissertation Award in Management or Management Science, Carnegie Mellon University, Pittsburgh, PA, 2007**
- Runner-up, First College Web Design Competition, Shanghai, China, 1997

Publications

Asterisk: Student or trainee.

(*a*) <u>Refereed Journal Papers</u>

J.125 Al-Dajani N, Czyz EK, Eisenberg D, **Zheng K**, King CA. A latent profile analysis of at-risk first-year undergraduate students. J Am Coll Health. 2023. DOI: 10.1080/07448481.2023. 2252909

J.124 Wu DTY, Hanauer D, Murdock P, Vydiswaran VGV, Mei Q, **Zheng K**. Developing a semantically based query recommendation for an electronic medical record search engine: query log analysis and design implications. JMIR Form Res. 2023;7:e45376. PMID: 37713239

J.123 Goyal J, Ng DQ, Zhang K, Chan A, Lee J, **Zheng K**, Hurley-Kim K, Nguyen L, He L, Nguyen M, McBane S, Li W, Cadiz CL. Using machine learning to develop a clinical prediction model for SSRI-associated bleeding: a feasibility study. BMC Medical Inform Decis Mak. 2023;23:105. (11 pages.) DOI: 10.1186/s12911-023-02206-3

J.122 Boussina A, Wardi G, Shashikumar S, Malhotra A, **Zheng K**, Nemati S. Representation learning and spectral clustering for the development and external validation of dynamic sepsis phenotypes: an observational cohort study. J Med Internet Res. 2023. DOI: 22/05/2023:45614

J.121 Dalton AF, Couture A, DeSilva MB, Irving SA, Gohil S, Rao S, Fink RV, Naleway AL, Guo Z, Sundaresan D, Birch RJ, Ball S, **Zheng K**, Ong TC, Reed C, Bozio CH. Patient and epidemiological factors associated with influenza testing in hospitalized adults with acute respiratory illnesses, 2016–2017 to 2019–2020. Open Forum Infect Dis. 2023;10(4):ofad162. (11 pages.) PMCID: PMC10117375

J.120 Veinot TC, Gillespie B, Argentina M, Bragg-Gresham J, Chatoth D, Collins Damron K, Heung M, Krein S, Wingard R, **Zheng K**, Saran R. Enhancing the cardiovascular safety of hemodialysis care using multimodal provider education and patient activation interventions: protocol for a cluster randomized controlled trial. JMIR Res Protoc. 2023;12:e46187. (22 pages.) PMCID: PMC10160944

J.119 Zhao X, Stadnick NA, Ceballos-Corro E, Castro J Jr, Mallard-Swanson K, Palomares KJ, Eikey E, Schneider M, **Zheng K**, Mukamel DB, Schueller SM, Sorkin DH. Facilitators of and barriers to integrating digital mental health into county mental health services: qualitative interview analyses. JMIR Form Res. 2023;7:e45718. (16 pages.) PMID: 37191975

J.118   Kuo TT, Pham A, Edelson ME, Kim J, Chan J, Gupta Y, Ohno-Machado L, the R2D2 Consortium. Blockchain-enabled immutable, distributed, and highly available clinical research activity logging system for federated COVID-19 data analysis from multiple institutions. J Am Med Inform Assoc. 2023;30(6):1167–78. PMID: 36916740

J.117   Tran BD,* Latif K,* Reynolds TL,* Park J, Lafata JE, Tai-Seale M, **Zheng K**. "Mm-hm," "Uh-uh": are non-lexical conversational sounds deal breakers for the ambient clinical documentation technology? J Am Med Inform Assoc. 2023;30(4):703–11. PMID: 36688526

J.116   Singh S, Kim J, Luo J, Paul P, Rudrapatna V, Park S, **Zheng K**, Syal G, Ha C, Fleshner P, McGovern D, Sauk JS, Limketkai B, Dulai PS, Boland BS, Eisenstein S, Ramamoorthy S, Melmed G, Mahadevan U, Sandborn WJ, Ohno-Machado L. Comparative safety and effectiveness of biologic therapy for Crohn's Disease: a CA-IBD cohort study. Clin Gastroenterol Hepatol. 2023;21(9):2359-2369.e5. PMID: 36343846

J.115   Borghouts J, Eikey EV, De Leon C, Schueller SM, Schneider M, Stadnick NA, **Zheng K**, Wilson L, Caro D, Mukamel DB, Sorkin DH. Understanding the role of support in digital mental health programs with older adults: users' perspective and mixed methods study. JMIR Form Res. 2022;6(12):e43192. (15 pages.) PMCID: PMC9795392

J.114   Berdahl CT, Henreid AJ, Pevnick JM, **Zheng K**, Nuckols TK. Digital tools designed to obtain the history of present illness from patients: scoping review. J Med Internet Res. 2022;24(11):e36074. (17 pages.) PMID: 36394945

J.113   Bozio CH, Butterfield K, Irving SA, Vazquez-Benitez G, Ong TC, **Zheng K**, Ball SW, Naleway AL, Barron M, Reed C. Relative risks of COVID-19-associated hospitalizations and clinical outcomes by age and race/ethnicity – March 2020 – March 2021. Open Forum Infect Dis. 2022;9(10):ofac376. (9 pages.) PMCID: PMC9532249

J.112   Coryell W, Horwitz AG, Albucher RC, **Zheng K**, Pistorello J, Eisenberg D, Favorite T, King CA. Suicidality and alcohol use as predictors of future suicidal behavior in college students. Alcohol Alcohol. 2022;57(6):643–7. PMID: 36055977

J.111   Idossa D, Borno HT, Wang K, Pletcher M, Gresham G, Canchola AJ, Bell DS, Matheny M, Schilling L, Perkins AM, **Zheng K**, Ohno-Machado L, Kim J, Soohoo SL, Meeker D, Gomez S. Ethnic and racial inequities in cancer screening during the COVID-19 pandemic: a multisite observational study in the United States. IJCCD. 2022. (34 pages in preprint manuscript format.) DOI: 10.53876/001c.37412

J.110   He L,* Yin T,* **Zheng K**. They may not work! An evaluation of eleven sentiment analysis tools on seven social media datasets. J Biomed Inform. 2022;132:104142. (9 pages.) PMID: 35835437

J.109   Nguyen NH, Luo J, Paul P, Kim J, Syal G, Ha C, Rudrapatna V, Park S, Parekh N, **Zheng K**, Sauk JS, Limketkai B, Fleshner P, Eisenstein S, Ramamoorthy S, Melmed G, Dulai PS, Boland BS, Mahadevan U, Sandborn WJ, Ohno-Machado L, McGovern D, Singh S. Effectiveness and safety of biologic therapy in Hispanic vs non-Hispanic patients with inflammatory bowel diseases: a CA-IBD cohort study. Clin Gastroenterol Hepatol. 2022:S1542-3565(22)00518-3. (14 pages.) PMID: 35644340

J.108   Gu P, Luo J, Kim J, Paul P, Limketkai B, Sauk JS, Park S, Parekh N, **Zheng K**, Rudrapatna V, Syal G, Ha C, McGovern D, Melmed GY, Fleshner P, Eisenstein S, Ramamoorthy S, Dulai P, Boland B, Grunvald EJ, Mahadevan U, Ohno-Machado L, Sandborn WJ, Singh S. Impact of obesity on risk of hospitalization, surgery and serious infection in biologic-treated patients with inflammatory bowel diseases: a CA-IBD cohort study. Am J Gastroenterol. 2022;117(10):1639–47. PMID: 35973139

J.107   Bornheimer LA, Czyz E, Jung Koo H, Li Verdugo J, Eisenberg D, **Zheng K**, Pistorello J, Albucher RC, Coryell W, Favorite T, King CA. Suicide risk profiles and barriers to professional help-seeking among college students with elevated risk for suicide. J Psychiatr Res. 2022;152:305–12. PMID: 35772258

J.106   King CA, Eisenberg D, Pistorello J, Coryell W, Albucher RC, Favorite T, Horwitz AG, Bonar EE, Epstein D, **Zheng K**. Electronic bridge to mental health for college students: a randomized controlled intervention trial. J Consult Clin Psychol. 2022;90(2):172–83. PMID: 35099205

J.105   Wu DTY, Barrick L, Ozkaynak M, Blondon K, **Zheng K**. Principles for designing and developing a workflow monitoring tool to enable and enhance clinical workflow automation. Appl Clin Inform. 2022;13(1):132–8. PMID: 35045584

J.104   Yale K, Nguyen C, Telep S, Ghigi A, **Zheng K**, Subramanian I, Feeney C, Mesinkovska NA. Is prior antithrombotic use protective against COVID-19 infection? A cross-sectional study of the University of California Health patient population. Ann Blood. 2022:1–3. DOI: 10.21037/aob-21-75

J.103   Chen Y, Park SY. Gui X, Cramer SC, **Zheng K**, Chen Y. Challenges and patient strategies in seeking health services for chronic stroke: a qualitative study. Int J Health Care. 2022;8(1):36–50. DOI: 10.5430/ijh.v8n1p36

J.102   Nguyen C, Shwe S, Yale K, Ghigi A, **Zheng K**, Mesinkovska NA, Bhutani T. The role of gender, race, and ethnicity in psoriasis patients with COVID-19 infection: a cross-sectional study. Int J Womens Dermatol. 2022;8(1):e012. (3 pages.) PMCID: PMC8939651

J.101   Horwitz AG, Hong V, Eisenberg D, **Zheng K**, Albucher R, Coryell W, Pistorello J, Favorite T, King CA. Engagement with personalized feedback for emotional distress among college students at elevated suicide risk. Behav Ther. 2022;53(2):365–75. PMID: 35227410

J.100   Yale K, Nourmohammadi N, Casale F, Ghigi A, **Zheng K**, Mesinkovska NA. A Year in Review: a cross-sectional study of alopecia areata and risk of COVID-19 infection, hospitalization, and mortality from March 2020 – February 2021. Int J Dermatol. 2022;61(3):e81–3. PMID: 35133009

J.99   Bonar EE, Kidwell KM, Bohnerte ASB, Bourquea CA, Carter PM, Clark SJ, Glantz MD, King CA, Losman ED, McCabe SE, Philyaw-Kotova ML, Prosser LA, Voepel-Lewis T, **Zheng K**, Walton MA. Optimizing scalable, technology-supported behavioral interventions to prevent opioid misuse among adolescents and young adults in the emergency department: a randomized controlled trial protocol. Contemp Clin Trials. 2021;108:106523. (10 pages.) PMCID: PMC8453131

J.98   Borghouts J, Eikey EV, Mark G, De Leon C, Schueller SM, Schneider M, Stadnick N, **Zheng K**, Mukamel DB, Sorkin DH. Understanding mental health app use among community college students: web-based survey study. J Med Internet Res. 2021;23(9):e27745. (18 pages.) PMCID: PMC8479606

J.97   Fox AB, Vogt D, Boyd JE, Earnshaw VA, Janio EA, Davis K, Eikey EV, Schneider M, Schueller SM, Stadnick NA, **Zheng K**, Mukame DB, Sorkin DH. Mental illness, problem, disorder, distress: does terminology matter when measuring stigma? Stigma Health. 2021;6(4):419–29. DOI: 10.1037/sah0000329

J.96   Coryell W, Horwitz AG, Albucher R, **Zheng K**, Pistorello J, Eisenberg D, Favorite T, King CA. Alcohol intake in relation to suicidal ideation and behavior among university students. J Am Coll Health. 2023;71(6):1680–4. PMID: 34398708

J.95 Willis MA, Hu Z, Saran R, Argentina M, Bragg-Gresham J, Krein SL, Gillespie B, **Zheng K**, Veinot TC. Feeling better on hemodialysis: user-centered design requirements for promoting patient involvement in the prevention of treatment complications. J Am Med Inform Assoc. 2021;28(8):1612–31. PMCID: PMC8324235 (Editor's Choice and Featured Article, Diana Forsythe Award Finalist)

J.94 Kim J, Neumann L, Paul P, Day ME, Aratow M, Bell DS, Doctor JN, Hinske LC, Jiang X, Kim KK, Matheny ME, Meeker D, Pletcher MJ, Schilling LM, SooHoo S, Xu H, **Zheng K**, Ohno-Machado L; R2D2 Consortium. Privacy-protecting, reliable response data discovery using COVID-19 patient observations. J Am Med Inform Assoc. 2021;28(8):1765–76. PMCID: PMC8194878

J.93 He L,* He C,* Reynolds TL,* Bai Q, Huang Y, Li C, **Zheng K**, Chen Y. Why do people oppose mask wearing? A comprehensive analysis of US tweets during the COVID-19 pandemic. J Am Med Inform Assoc. 2021;28(7):1564–73. PMCID: PMC7989302 (Editor's Choice and Featured Article)

J.92 He L,* Yin T,* Hu Z,* Chen Y, Hanauer DA, **Zheng K**. Developing a standardized protocol for computational sentiment analysis research using health-related social media data. J Am Med Inform Assoc. 2021;28(6):1125–34. PMCID: PMC8200276

J.91 Tran BD,* Rosenbaum K,* **Zheng K**. An interview study with medical scribes on how their work may alleviate clinician burnout through delegated health IT tasks. J Am Med Inform Assoc. 2021;28(5):907–14. PMCID: PMC8068433

J.90 Eikey EV,* Caldeira C,* Figueiredo MC,* Chen Y, Borelli J, Mazmanian M, **Zheng K**. Beyond self-reflection: introducing the concept of rumination in personal informatics. Pers Ubiquit Comput. 2021;601–16. DOI: 10.1007/s00779-021-01573-w

J.89 Camplain R, Lopez NV, Cooper DM, McKenzie TL, **Zheng K**, Radom-Aizik S. Development of the systematic observation of COVID-19 mitigation (SOCOM): assessing face covering and distancing in schools. J Clin Transl Res. 2021;5(1):e124. PMCID: PMC8267337

J.88 Willis MA, Brand Hein L, Hu Z, Saran R, Argentina M, Bragg-Gresham J, Krein SL, Gillespie B, **Zheng K**, Veinot TC. Evaluation of a tablet-based intervention to prevent intradialytic hypotension in dialysis patients during in clinic dialysis: mixed methods interaction study. JMIR Hum Factors. 2021;8(2):e26012. (12 pages.) PMCID: PMC8240799

J.87 Montgomery RM, Brandysky L, Neary M, Eikey E, Mark G, Schneider M, Stadnick NA, **Zheng K**, Mukamel DB, Sorkin DH, Schueller SM. Curating the digital mental health landscape with a guide to behavioral health apps: a county-driven resource. Psychiatr Serv. 2021;72(10):1229–32. PMID: 34030454. (Editor's Choice)

J.86 Nguyen C, Yale K, Casale F, Ghigi A, **Zheng K**, Silverberg JI, Mesinkovska NA. SARS-CoV-2 infection in patients with atopic dermatitis: a cross-sectional study. Br J Dermatol. 2021;185(3):640–1. PMCID: PMC8239933

J.85 Kasaeyan Naeini E, Subramanian A, Calderon MD, **Zheng K**, Dutt N, Liljeberg P, Salanterä S, Nelson AM, Rahmani AM. Pain recognition with electrocardiographic features in postoperative patients: method validation study. J Med Internet Res. 2021;23(5):e25079. (13 pages.) PMCID: PMC8196363

J.84 Sorkin DH, Janio EA, Eikey EV, Schneider M, Davis K, Schueller SM, Stadnick NA, **Zheng K**, Neary M, Safani D, Mukamel DB. Rise in use of digital mental health tools and technologies in the U.S. during the COVID-19 pandemic. J Med Internet Res. 2021;23(4):e26994. (12 pages.) PMCID: PMC8054774

J.83   Aqajari SAH, Cao R, Kasaeyan Naeini E, Calderon MD, **Zheng K**, Dutt N, Liljeberg P, Salanterä S, Nelson AM, Rahmani AM. Pain assessment tool with electrodermal activity for postoperative patients: method validation study. JMIR Mhealth Uhealth. 2021;9(5):e25258. (11 pages.) PMCID: PMC8135033

J.82   Nguyen C, Yale K, Ghigi A, **Zheng K**, Mesinkovska NA, Wambier CG, Cadegiani FA, Goren A. SARS-CoV-2 infection in patients with thyroid disease: a cross-sectional study. Ann Thyroid. 2021;6:7. (3 pages.) PMCID: PMC8211102

J.81   Borghouts J, Eikey EV, Mark G, De Leon C, Schueller SM, Schneider M, Stadnick N, **Zheng K**, Mukamel D, Sorkin DH. Barriers to and facilitators of user engagement with digital mental health interventions: systematic review. J Med Internet Res. 2021;23(3):e24387. (29 pages.) PMCID: PMC8074985

J.80   Zhu M, Wu C, Huang S, **Zheng K**, Young SD, Yan X, Yuan Q. Privacy paradox in mHealth applications: an integrated elaboration likelihood model incorporating privacy calculus and privacy fatigue. Telemat Inform. 2021;61:101601. (15 pages.) DOI: 10.1016/j.tele.2021.101601

J.79   Yale K, Elsanadi R, Ghigi A, **Zheng K**, Goren A, Mesinkovska NA. Androgens and women: COVID-19 outcomes in women with acne vulgaris, polycystic ovarian syndrome, and hirsutism. Int J Dermatol. 2021;60(7):e267–8. PMCID: PMC8014631

J.78   Park JI, Kim D, Lee JA, **Zheng K**, Amin A. Personalized risk prediction of 30-day readmissions with venous thromboembolism using machine learning. J Nurs Scholarsh. 2021;53(3):278–87. PMCID: PMC8568050

J.77   Cooley-Rieders K,* **Zheng K**. Physician documentation matters. Using natural language processing to predict mortality in sepsis. Intell Based Med. 2021;5:100028. (7 pages.) DOI: 10.1016/j. ibmed.2021.100028

J.76   Saran R, Pearson A, Tilea A, Shahinian V, Bragg-Gresham J, Heung M, Hutton DW, Steffick D, **Zheng K**, Morgenstern H, Gillespie BW, Leichtman A, Young E, O'Hare AM, Fischer M, Hotchkiss J, Siew E, Hynes D, Fried L, Balkovetz D, Sovern K, Liu CF, Crowley S; VA-REINS Steering Committee; VA Advisory Board. Burden and cost of caring for US veterans with CKD: initial findings from the VA Renal Information System (VA-REINS). Am J Kidney Dis. 2021;77(3):397–405. PMID: 32890592

J.75   Busby DR, **Zheng K**, Eisenberg D, Albucher R, Favorite T, Coryell W, Pistorello J, King CA. Black college students at elevated risk for suicide: barriers to mental health service utilization. J Am Coll Health. 2021;69(3):308–14. PMID: 31662044

J.74   Nourmohammadi M, Yale KL, Ghigi A, **Zheng K**, Mesinkovska NA. A cross-sectional study on Herpes Zoster diagnosis in the time of COVID-19. SKIN J Cutan Med. 2020;4(6):556–8. DOI: 10.25251/skin.4.6.9

J.73   Li Y, Meng J, Song C, **Zheng K**. Information avoidance and medical screening: a field experiment in China. Manage Sci. 2020;67(7):4252–72. DOI: 10.1287/mnsc.2020.3723

J.72   Xu J, Hussain S, Lu G, **Zheng K**, Wei S, Bao W, Zhang L. Associations of stay-at-home order and face-masking recommendation with trends in daily new cases and deaths of laboratory-confirmed COVID-19 in the United States. Explor Res Hypothesis Med. 2020. (10 pages.) PMCID: PMC7361445

J.71   Kasaeyan Naeini E, Jiang M, Syrjälä E, Calderon MD, Mieronkoski R, **Zheng K**, Dutt N, Liljeberg P, Salanterä S, Nelson AM, Rahmani AM. Prospective study evaluating a pain assessment tool in a postoperative environment: protocol for algorithm testing and enhancement. JMIR Res Protoc. 2020;9(7):e17783. (10 pages.) PMCID: PMC7367536

J.70   Horwitz AG, McGuire TC, Busby DR, Eisenberg D, **Zheng K**, Pistorello J, Albucher R, Coryell W, King CA. Sociodemographic differences in barriers to mental health care among college students at elevated suicide risk. J Affect Disord. 2020;271(15):123–30. PMCID: PMC7266827

J.69   Horwitz AG, Berona J, Busby DR, Eisenberg D, **Zheng K**, Pistorello J, Albucher R, Coryell W, Favorite T, Walloch JC, King CA. Variation in suicide risk among subgroups of sexual and gender minority college students. Suicide Life Threat Behav. 2020;50(5):1041–53. PMCID: PMC7981781

J.68   Hanauer DA, Barnholtz-Sloan J, Beno M, Fiol GD, Durbin E, Gologorskaya O, Harnett B, Kawamoto K, May B, Meeks E, Pfaff E, Weiss J, **Zheng K**. EMERSE: an information retrieval tool for supporting cancer research. JCO Clin Cancer Inform. 2020;4:454–63. PMCID: PMC7265780

J.67   Tran BD,* Chen Y, Liu SZ,* **Zheng K**. How does medical scribes' work inform the development of speech-based clinical documentation technologies? A systematic review. J Am Med Inform Assoc. 2020;27(5):808–17. PMCID: PMC7309239

J.66   Kuo P-Y, Saran R, Argentina M, Heung M, Bragg-Gresham JL, Krein S, Gillespie B, **Zheng K**, Veinot TC. Cramping, crashing, cannulating, and clotting: a qualitative study of patients' definitions of a "bad run" on hemodialysis. BMC Nephrol. 2020;21:67. (10 pages.) PMCID: PMC7045425

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W.11   Reynolds TL,* Dameff C, Longhurst CA, **Zheng K**. Who's left behind by smartphone-based personal health records? The 2020 Workshop on Interactive Systems in Healthcare (WISH '20), November 2020.

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W.8   Reynolds TL,* McGregor E,* **Zheng K**. "*Where am I?*" Finding patients in the process of navigating a complex clinical information space. The 2017 Workshop on Interactive Systems in Healthcare (WISH '17), November 2017.

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(*i*) <u>Refereed Abstracts</u>

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A.71 NEED UPDATE Xin Zhao, Stephen M. Schueller, Judith Borghouts, Eduardo Ceballos-Corro, Kristina Palomares, Nicole A. Stadnick, Elizabeth Eikey, Margaret Schneider, Kai Zheng, Dana B. Mukamel, Dara H. Sorkin. Implementing Digital Mental Health Tools in County/City Services: A Cross County/City Perspective. SDMH

A.70 need update Exploring the Implementation of a Virtual Care Platform in an Outpatient Psychiatry Clinic: A Survey Study with Psychiatry Residents. Eduardo Ceballos-Corro, Stephen M. Schueller, Xuechen Li, Xin, Zhao, Nicole A. Stadnick, Elizabeth V. Eikey, Margaret Schneider, Kai Zheng, Dana B. Mukamel, Dara H. Sorkin. Sorkin Society for Digital Mental Health Meeting Accepted as a poster.

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A.36 Wu DT,* Smart N,* Han SJ,* Majeed M,* Han J,* Li S,* Zhang F,* **Zheng K**. Visualizing clinical workflow using time and motion data. AMIA Annu Symp Proc. 2015.

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A.34 Ashfaq S, Bell KM, Difley M, Mortensen S, Avery K, Rick S, Weibel N, Pandey B, Weir C, Hochheiser HS, Chen Y, Zhang J, **Zheng K**, Street R, Gabuzda MT, Farber N, Liu L, Calvitti A, Agha Z. Analysis of computerized clinical reminder activity and usability issues. AMIA Annu Symp Proc. 2015.

A.33 Zhang J, Avery K, Chen Y, Ashfaq S, Rick S, **Zheng K**, Weibel N, Hochheiser HS, Weir C, Bell KM, Gabuzda MT, Farber N, Pandey B, Calvitti A, Liu L, Street R, Agha Z. A preliminary study on EHR-associated extra workload among physicians. AMIA Annu Symp Proc. 2015.

A.32 Ghani KR, Liu Y, Shylkov MA, Wei JT, Hollenbeck B, **Zheng K**. Prostate cancer in 140 characters: a time-trend analysis of prostate cancer discussion on Twitter. The Endourological Society 2015 World Congress of Endourology and SWL (WCE '15). J Endourol. 2015;29(S1). DOI: 10.1089/end.2015.29003.abstracts

A.31 Liu Y,* Mei Q, Hanauer DA, **Zheng K**. Understanding public concerns of vaccine-autism linkage by computational analysis of online news comments. The 2014 Workshop on Interactive Systems in Healthcare (WISH '14). 2014.

A.30 Wu DT,* Veinot TC, Bradley DJ, **Zheng K**. Design implications of a workflow-enabled computer-based documentation system. The 2014 Workshop on Interactive Systems in Healthcare (WISH '14). 2014. (Best Poster Award)

A.29 Wu DT,* Bradley DJ, **Zheng K**. Implementation of a computer-based documentation system improves workflow efficiency: a case report. AMIA Annu Symp Proc. 2014;1634.

A.28 Talsma AN, Kamdar N, Sirihorachai R, **Zheng K**. Evaluation of a data validation protocol to use EHR data for improvement purposes. The AcademyHealth 2014 Annual Electronic Data Methods Forum Stakeholder Symposium. 2014.

A.27 Sun S,* Zhou X, Adler-Milstein J, **Zheng K**. Ten types of clinician questions: a study of CPOE helpdesk phone logs. AMIA Annu Symp Proc. 2013;1332.

A.26 Bhavnani SK, Dang B, **Zheng K**, Weber C. How first responders use decision-support tools during chemical emergencies: the nexus of culture, context, and cognition. AMIA Annu Symp Proc. 2013;126.

A.25 Michelotti M, Weizer JS, Blachley TS, Couper MP, **Zheng K**, Greenberg GM, Kilney S, Branford GL, Hanauer DA. Ophthalmologists' attitudes on implementing an electronic health record system. In: *The Association for Research in Vision and Ophthalmology (ARVO) Annual Meeting Abstract.* 2013;54:15.

A.24 Li H,* Hanauer DA, van de Ven C, **Zheng K**. Evaluating an RFID-based authentication system for health care settings. The Human Factors and Ergonomics Society 2013 Symposium on Human Factors and Ergonomics in Health Care (HFES '13). 2013.

A.23 Hanauer DA, **Zheng K**, Fitzgerald KD, Robichaux PR, White MC, Burrows HL, Davis MM, Smith KA, Athey BD. Introducing Apple iPads into clinical workflow to increase recruitment of children for clinical research. The 2012 Clinical and Translational Science Award Annual Informatics Meeting. 2012.

A.22 Hanauer DA, **Zheng K**, Smith KA, Athey BD. The Electronic Medical Record Search Engine (EMERSE): an open source tool for searching free text clinical documents from electronic health records. The 2012 Clinical and Translational Science Award Annual Informatics Meeting. 2012.

A.21 Bhavnani SK, Massey M, Hanson-Michaud E, **Zheng K**, Weber C. *Decision-Support in the Wild*: a qualitative study on how first responders use technology for rapid toxic chemical identification. AMIA Annu Symp Proc. 2012;1689. (Distinguished Poster Award)

A.20 Hanauer DA, Fitzgerald KD, Robichaux PR, White MC, Burrows HL, Davis MM, **Zheng K**. Increasing recruitment of children for clinical research: paper vs. Apple iPads. The 2012 Annual Clinical Research Management Workshop. 2012.

A.19 Herzog JN, Perry EE, Cayton HK, Plattner B, Twining L, Rees S, **Zheng K**. Evaluation of a renal team learning module on working with young adults (YA) with chronic kidney failure (CKF). The National Kidney Foundation 2012 Spring Clinical Meeting. 2012.

A.18 Campion MO, **Zheng K**, Robinson L, Kim S, Calicoglu A, Ferris ME. Parental expectations for their adolescents' health care transition and perceived mood: a mixed methodology approach. The 2011 Annual Health Care Transition Research Consortium Research Symposium. 2011.

A.17 Zhou X,* Hanauer DA, Ackerman MS, **Zheng K**. *Problem List*: exploring a navigation mechanism to access long-term medical information. AMIA Annu Symp Proc. 2011;2024.

A.16 Banaszak-Holl J, Lemak CH, Griffith JR, Fear K, Lammers EJ, **Zheng K**. Use of knowledge to support evidence-based management in high-performing health care organizations. The Academy of Management 2011 Annual Meeting (AOM '11). 2011.

A.15 **Zheng K**, Mei Q, Hao H, Wu TY. Online reputation systems for improving operational efficacy of the healthcare marketplace. The Institute for Operation Research and the Management Sciences (INFORMS) Healthcare. 2011.

A.14 Jones P, Cronin D, Karavite D, Koppel R, Dalrymple PW, **Zheng K**, Rogers M, Schumacher B. Designing for whole systems and services in healthcare. In: *CHI '11 Extended Abstracts on Human Factors in Computing Systems (CHI EA '11)*. 2011;359–62. DOI: 10.1145/1979742.1979530

A.13 Perry EE, Herzog JN, **Zheng K**, Segal JH, Bickford K, Ferris ME. Empowering young people with chronic kidney disease (CKD) through an online community website. The American Society of Pediatric Nephrology 2011 Annual Meeting (ASPN '11). 2011.

A.12 Hanauer DA, **Zheng K**, Choi SW, Beasley R, Schumacher J, Duck M, Blayney DW. Impact of CPOE on workflow and direct patient care time in an inpatient hematology/oncology service. The American Society of Clinical Oncology 2010 Annual Meeting (ASCO '10). J Clin Oncol. 2010;28(15_suppl):6142. DOI: 10.1200/jco.2010.28.15_suppl.6142

A.11 Hanauer DA, Mei Q, **Zheng K**. Patterns of cooperative search for patient data. AMIA Annu Symp Proc 2009.

A.10 **Zheng K**, Souden M, Keith R, Lowery JC. Investigating information-user-task fit of the VA Diabetes Cube. AMIA Annu Symp Proc. 2009.

A.9 Zhou X,* Ackerman MS, **Zheng K**. Doctors and psychological information: records and reuse in inpatient care. AMIA Annu Symp Proc. 2009. (Distinguished Poster Award Nomination)

A.8 McQuaid M, **Zheng K**, Melville N, Green LA. Usable deidentification of sensitive patient care data. In: *Proceedings of the 2009 Symposium on Usable Privacy and Security (SOUPS '09)*. 2009;30. DOI: 10.1145/1572532.1572570

A.7 Tanner C, Pohl JM, **Zheng K**, Hamilton A, McGrath D. A partnership model to facilitate EHRS adoption and improvement of quality of care in safety net providers. AMIA Spring Congress Proceedings. 2009.

A.6 Zhou X,* Ackerman MS, **Zheng K**. Re-formation of healthcare information: an opportunity for health IT. AMIA Annu Symp Proc. 2008;1194. PMID: 18999256

A.5 Zhou X,* Ackerman, MS, **Zheng K**, Schoville R. A case study of CPOE adoption and use: work-arounds and their social-technical implications. AMIA Annu Symp Proc. 2008;1195. PMID: 18999266

A.4 Hanauer DA, **Zheng K**. Detecting workflow changes after a CPOE implementation: a sequential pattern analysis approach. AMIA Annu Symp Proc. 2008. AMIA Annu Symp Proc. 2008;963. PMID: 18999105 (Distinguished Poster Award)

A.3 Patel R,* Hanratty M, Johnson J, Saxman P, Shah A, **Zheng K**. Casepedia: A Web 2.0 case repository enabling collaborative learning. AMIA Annu Symp Proc. 2008;1085. PMID: 18999234

A.2 Bhavnani SK, Saxman PR, Hunscher DA, **Zheng K**, Smith KA, Athey BD. CaTER: University of Michigan's web portal for clinical and translational empowered research. The 2008 AMIA Summit on Translational Bioinformatics. 2008.

A.1 **Zheng K**, Krackhardt D, Padman R, Johnson MP, Diamond HS. Social contagion and technology adoption: a study in healthcare professionals. AMIA Annu Symp Proc. 2007;11:1175. PMID: 18694271

(j) Other Publications (Non-Refereed)

O.5 Poon EG, Rosenbloom ST, **Zheng K**. Health information technology and clinician burnout: current understanding, emerging solutions, and future directions. J Am Med Inform Assoc. 2021. PMID: 33871016

O.4 **Zheng K**, Chen Y. Introduction to the Minitrack on health technologies that interface patients and providers. In: *Proceedings of the 2018 Hawaii International Conference on System Sciences (HICSS '18)*. 2018;2904–5. DOI: 10.24251/HICSS.2018.368

O.3 Veinot TC, Bash N, Bragg-Gresham JL, Dant W, Gillespie B, Heung M, Krein SL, Saran R, **Zheng K**. Changing routine practice to enhance the cardiovascular safety of hemodialysis care. Nephrol News Issues. April 22, 2016. URL: http://www.nephrologynews.com/enhancing-cardiovascular-safety-of-hemodialysis-care/

O.2 Calvitti A, Weibel N, Hochheiser H, Liu L, **Zheng K**, Weir C, Ashfaq S, Rick S, Agha Z, Gray B. Can eye tracking and EHR mouse activity tell us when clinicians are overloaded? In: Saleem JJ, ed. *The Human Factors Quarterly*. Office of Informatics and Analytics, Veterans Health Administration. 2014;8. URL: http://content.govdelivery.com/accounts/USVHA/bulletins/cfd5d2#article4

O.1 Banaszak-Holl J, **Zheng K**, Griffith JR. Critical next steps in evidence-based management of health care organizations. Health Care Manage Rev. 2009;34(3):219–21. PMID: 19625825

Grants & Contracts

Dollar amount shown is total cost unless otherwise specified.

(a) Active

R01EB031030 (Kuo), 09/30/2022–06/30/2026
NIH/NIBIB, $1,306,442
SOCAL: Privacy-protecting Sharing Of Clinical Data Across Laboratories
Role: Co-Investigator

(Wu) 02/15/2022–02/14/2025
California Air Resources Board, $500,000
Examining the Health Impacts of Short-Term Repeated Exposure to Wildfire Smoke
Role: Co-Investigator

90PH0010/01-02 (Zheng, Chen, Bruckner), 09/21/2021–09/20/2025
ONC, $7,232,582
Transforming Public Health Informatics and Technology Training to Advance Diversity and Equity
Role: PI

1OT2OD032581-01 (Vishwanatha), 09/17/2021–09/16/2023
NIH Office of The Director, $50,000,000
AIM-AHEAD Coordinating Center: Artificial Intelligence/Machine Learning Consortium to Advance Health Equity and Researcher Diversity
Role: Co-Investigator, Co-Lead of the Data & Disparities Unit, Data and Research Core

19-02952 (Rodriguez), 05/18/2020–06/30/2023
Arnold Ventures, $2,712,673

The Sources and Consequences of Prison Violence
Role: Co-Investigator, Informatics Lead

R01HG011066 (Ohno-Machado), 05/01/2020–02/28/2025
NIH/NHGRI, $3,940,123
iAGREE: A Multi-Center, Networked Patient Consent Study
Role: Site PI & Usability Lead

U01TS000308 (Bartell), 09/30/2019–09/29/2024
CDC, $1,000,000
UC Irvine Per- and Poly-Fluoroalkyl Substances (PFAS) Health Study
Role: Co-Investigator

UL1TR001414 (Cooper), 08/15/2019–06/30/2024
NIH/NCATS, $17,978,400
The UC Irvine Institute for Clinical and Translational Science (ICTS)
Role: Director of Biomedical Informatics

OT2OD026552 (Ohno-Machado), 04/01/2018–03/31/2023
NIH Office of The Director, $58,453,967
California Precision Medicine Research Program Consortium
Role: Co-Investigator

R01HL136835 (Ohno-Machado), 12/15/2017–12/31/2022
NIH/NHLBI, $1,656,557
Protecting Privacy and Facilitating Shared Access of Clinical and Genetic Data of Special Populations
Role: Co-Investigator, Usability Lead

(*b*) Active: Other

5R01AA029400 (Lin, Bonar), 09/20/2021–05/31/2026
NIH/NIAAA, $1,387,479
Harnessing Telemedicine to Improve Alcohol Use Disorder Outcomes in Primary Care Patients
Role: Paid Consultant

5R01MH126871 (Czyz), 09/07/2021–06/30/2026
NIH/NIMH, $1,463,570
Adaptive intervention to prevent adolescent suicidal behavior following psychiatric hospitalization: A Sequential Multiple Assignment Randomized Trial
Role: Paid Consultant

4UH3DA050173 (Walton, Bonar), 09/30/2019–08/31/2024
NIH/NIDA, $5,171,693
Optimized Interventions to Prevent Opioid Use Disorder among Adolescents and Young Adults in the Emergency Department
Role: Paid Consultant

(*c*) Completed

2208383 (Bradley, Tang), 06/01/2022–05/31/2023
NSF, $255,990
STTR Phase I: An Integrated Biomedical Platform and Custom Algorithm to Optimize Feeding Protocols for Preterm Infants
Role: Co-Investigator

UCI-Internal (Ma, Zheng), 02/01/2022–01/31/2023

UCI ICTS/VA Long Beach Informatics Pilot Award, $50,000
Outcomes from the National Database of Lymphoid Malignancies in US Veterans Using Data from the Veterans Health Administration, the Largest Integrated Healthcare System
Role: Co-PI

UL1TR001414-06S2 (Cooper), 10/01/2020–09/30/2022
NIH/NCATS, $498,289
University of California Health Participation in the National COVID Cohort Collaborative (N3C)
Role: Site PI

HHSD2002013M53968B (Ball), 05/04/2020–09/30/2022
CDC/Westat, $670,225 (subaward total cost)
Virtual Network to Investigate the Trajectory of COVID-19-Related Severe Outcomes in an Electronic Cohort of Elderly Persons and Persons with High Risk Conditions
Role: Site PI, Southern California Consortium

417-ITS-UCI-2019 (Sorkin, Mukamel), 11/01/2018–06/30/2022
California Mental Health Services Authority (CalMHSA), $9,500,000
Formative Evaluation of the Innovation Technology Suite Project: Cohort 1
Role: Co-Investigator, Co-Lead, Data Repository and Data Dashboard

U24CA204863 (Hanauer), 08/17/2017–03/31/2022
NIH/NCI, $3,934,064
Advanced Development and Dissemination of EMERSE for Cancer Phenotyping from Medical Records
Role: Co-Investigator, Usability Lead

(Amin), 10/11/2021–02/09/2022
The MITRE Corporation, $1,377,081
Real World Evidence (RWE) to Accelerate COVID-19 Therapeutics
Role: Co-Investigator

UCI-Internal (Cadiz), 01/29/2021–01/28/2022
Genetic Epidemiology Research Institute and UCI Office of Data and IT, $2,500 (direct cost)
Safer Medication Use for All of Us: Developing a Clinical Prediction Model for Adverse Drug Events (SPADE)
Role: Co-Investigator

HHSD2002013M53968B (Ball), 02/01/2020–12/15/2021
CDC/Westat, $293,174 (subaward total cost)
Virtual Network to Investigate Risk of Influenza-Associated Severe Outcomes and Influenza Vaccine Effectiveness Using Integrated Medical and Public Health Records
Role: Site PI, Southern California Consortium

IHS150327848 (Veinot), 11/01/2016–10/31/2021
PCORI, $6,775,863
Enhancing the Cardiovascular Safety of Hemodialysis Care: A Cluster-Randomized, Comparative Effectiveness Trial of Multimodal Provider Education and Patient Activation Interventions
Role: Co-Investigator, Informatics Lead

UCI-Internal (Khine) 10/15/2020–10/14/2021
SSoE MERI Seed Funds, $45,000
UCI Transdisciplinary Approach to Pain
Role: Co-PI

UCI-Internal (Khine) 10/15/2020–10/14/2021

UCI Office of Research Research Seed Funding Program, $25,000
UCI Transdisciplinary Approach to Pain
Role: Co-PI

R01AA026574 (Patrick), 09/26/2018–08/31/2021
NIH/NIAAA, $1,280,120
An Adaptive Preventive Intervention to Optimize the Transition from Universal to Indicated Resources for College Student Alcohol Use
Role: Paid Consultant

GBMF9639 (Ohno-Machado), 05/01/2020–07/31/2021
Gordon and Betty Moore Foundation, $500,000
Rapid Response Data for Discoveries (R2D2): COVID-19 Clinical Data Collection to Promote Better Outcomes
Role: Site PI

R18HS025645 (Jariwala), 08/01/2018–05/31/2021
AHRQ, $1,481,014
Adapting, Scaling, and Spreading an Algorithmic Asthma Mobile Intervention to Promote Patient-Reported Outcomes within Primary Care Settings
Role: Paid Consultant

UCI-Internal (Bradley), 07/19/2020–01/15/2021
Beall Applied Innovation, $80,000 (direct cost)
Pedi-Sync: An Integrated Biomedical Platform with Clinical Algorithm for Determining Optimum Feeding Protocols for Preterm Infants
Role: Co-Investigator

UCI-Internal (Zheng), 06/01/2020–08/31/2020
Academic Senate Council on Research, Computing and Libraries (CORCL), $5,000 (direct cost)
A Pilot Study to Characterize How Sex and Gender information is obtained, recorded, and used in the Electronic Health Record
Role: PI

UG3DA050173 (Walton, Bonar), 09/30/2019–08/31/2020
NIH/NIDA, $699,050
Optimized Interventions to Prevent Opioid Use Disorder among Adolescents and Young Adults in the Emergency Department: Pilot
Role: Paid Consultant

UCI-Internal (Zheng), 06/01/2019–08/31/2019
Academic Senate Council on Research, Computing and Libraries (CORCL), $1,940 (direct cost)
A Pilot Study to Characterize External Forces that Influence Clinicians' Clinical Documentation Behavior
Role: PI

(Zheng), 10/01/2018–05/31/2019
SAP SE, €90,000
Understanding Prospective Users and Use Environments for Hands-free Clinical Documentation Technologies
Role: PI

(Smyth, Zheng), 10/01/2018–05/31/2019
SAP SE, €60,000
Understanding the Readiness of Automated Technologies for Speech to Text to Structured Information

in a Clinical Setting
Role: Co-PI

UCI-Internal (Zheng), 06/01/2018–08/31/2018
Academic Senate Council on Research, Computing and Libraries (CORCL), $3,500 (direct cost)
Developing a Domain-Specific Sentiment Analyzer for Studying Health-Related Social Media Data
Role: PI

TR001414-04S1 (Cooper), 04/01/2018–03/31/2019
NIH/NCATS, $593,500
CTSA Program External Reviewer Exchange Consortium
Role: Co-Investigator, Informatics Lead

R01MH103244-04S1 (King), 07/21/2017–05/31/2020
NIH/NIMH, $248,831
Electronic Bridge to Mental Health (eBridge) for College Students (Supplement)
Role: Co-Investigator, Informatics Lead

17IRG33460393 (Cramer), 07/01/2017–06/30/2019
American Heart Association (AHA) Innovative Research Grant, $150,000
The Home is the Stroke Clinic of the Future
Role: Co-Investigator

UCI-Internal (Zheng), 06/01/2017–08/31/2017
Academic Senate Council on Research, Computing and Libraries (CORCL), $7,427 (direct cost)
Curbing the Opioid Epidemic with Computerized Clinical Decision Support
Role: PI

TR001872-01S1 (Collard), 02/01/2017–05/31/2018
NIH/NCATS, $414,706
Network Capacity Supplement: Clinical Trial Finder and PI Finder
Role: Site PI

(Bossen), 01/01/2017–06/30/2018
Danish Ministry of Higher Education and Science, kr. 282,937
Data-Driven Quality Improvement and Management in Healthcare
Role: Co-Investigator

OT2OD024611 (Anton-Culver, Ohno-Machado, Butte), 09/27/2016–08/31/2017
Office of The Director, NIH, $2,318,412
California Precision Medicine Consortium (Pilot)
Role: Co-Investigator

R01HS0249114 (Friese), 09/01/2016–08/31/2019
AHRQ, $1,430,301
"Communication Processes, Technology, and Patient Safety in Ambulatory Oncology Settings"
Role: Paid Consultant

UCI-Internal (Zheng), 06/01/2016–08/31/2016
Academic Senate Council on Research, Computing and Libraries (CORCL), $6,062 (direct cost)
Navigating Clinical Information: Improving Patient Portal Design through Understanding Patient Questions Asked in Online Health Forums
Role: PI

CDRN130604819 (Ohno-Machado), 10/01/2015–03/31/2019
PCORI, $9,378,814

Patient-centered SCAlable National Network for Effectiveness Research (pSCANNER)
Role: Site PI

R01HG008802 (Ohno-Machado), 09/21/2015–06/30/2018
iCONCUR: informed CONsent for Clinical data and biosample Use in Research
NIH/NHGRI, $1,324,059
Role: Site PI

UL1TR001414 (Cooper), 08/15/2015–07/14/2019
NIH/NCATS, $14,110,506
The UC Irvine Institute for Clinical and Translational Science (ICTS)
Role: Director of Biomedical Informatics

I01HX00098201 (Ohno-Machado), 07/01/2015–06/30/2018
Veterans Affairs, $971,200
Design and Evaluation of User Centered Electronic Health Records (DEUCE)
Role: Co-Investigator

R21HS23786 (Patel), 06/01/2015–05/31/2017
AHRQ, $299,975
Feasibility of a Clinician Training Program to Improve Patient–Provider Communication in the Presence of Health IT Systems in the Exam Room
Role: Co-Investigator

R21HS023865 (Lee), 06/01/2015–05/31/2017
AHRQ, $300,000
Patient-Centered Data Visualizations for Diabetes
Role: Co-Investigator

(Burmeister), 10/01/2014–10/01/2016
Michigan Medicine–Peking University Health Science Center Joint Institute for Translational and Clinical Research, $178,936 (direct costs)
Epigenetic Effects of Prenatal Environment Exposures
Role: Consultant

R01ES021465-02S1 (Meeker, Lozoff), 09/01/2014–03/31/2016
NIH/NLM, $75,623
Administrative Supplement for Informationist Services in NIH-funded Research Projects: Environmental Exposures, Early Iron Deficiency and Child Neurological Development
Role: PI of Administrative Supplement

R01MH103244 (King), 08/11/2014–05/31/2020
NIH/NIMH, $2,754,329
Electronic Bridge to Mental Health (eBridge) for College Students
Role: Co-Investigator, Informatics Lead

NIHA20131003 (Song), 01/01/2014–12/31/2014
National University of Singapore Initiative to Improve Health in Asia, $80,000 (direct costs)
The Demand of Diabetes Screening
Role: Co-Investigator

HHSM500201313017I (Li), 09/26/2013–12/31/2015
DHHS/CMS, $17,624,093
End Stage Renal Disease (ESRD) Quality Measure Development, Maintenance and Support—Task Order 003

Role: Co-Investigator

VA11812C0043 (Saran), 09/24/2012–10/01/2016
Veterans Affairs, $3,716,016
Developing a Comprehensive National Kidney Registry for the Department of Veterans Affairs
Role: Co-Investigator

UL1TR000433 (Shanley), 06/27/2012–12/31/2015
NIH/NCATS, $48,788,667
Michigan Institute for Clinical and Health Research (MICHR)
Role: Core Faculty, Biomedical Informatics

R13HS022817 (Chen), 09/01/2013–11/17/2013
AHRQ, $34,167 (direct costs)
Workshop On Interactive Systems In Healthcare (WISH) 2013: Bridging Communities
Role: Co-PI

(Zheng), 07/29/2013–06/29/2014
University of Michigan Department of Urology, $83,394 (direct costs)
Prostate Cancer Database Consolidation Project
Role: PI

(Zheng), 12/19/2012–12/31/2014
MCubed, $60,000 (direct costs)
Mining Social Media Data to Understand the Patterns of Spatiotemporal Dissemination of Health-related Information and Concerns during Public Health Crises
Role: PI

(Zheng), 09/01/2012–08/31/2013
UM Center of Excellence in Cancer Communications Research, $28,508 (direct costs)
Bridging the Gap between Information Availability and Information Utility when Sharing Narrative Clinician Notes with Patients
Role: PI

(Cohen), 09/01/2012–08/31/2013
The Walter J. McNerney Award, $24,998 (direct costs)
Practice Variation in Electronic Health Record Use and the Impact on Efficiency and Quality
Role: Faculty Advisor

HHSA290201000019I1 (Ciemins, Zheng), 06/01/2012–07/31/2015
AHRQ, $799,014
Using Health IT in Practice Redesign: Impact of Health IT on Workflow—A Multisite Field Study Applying Novel Methods to Better Understand the Causal Relationship between Health IT and Ambulatory Care Workflow Redesign
Role: Co-PI

(Zheng), 10/01/2010–09/30/2014
Michigan Congenital Heart Center, $311,965 (direct costs)
Effective Research Data Acquisition during Routine Patient Care
Role: PI

HHSN276201000032C (Zheng), 09/27/2010–03/26/2012
NIH/NLM, $301,251
Developing an Intelligent and Socially Oriented Search Query Recommendation Service for Facilitating Information Retrieval in Electronic Health Records

Role: PI

W81XWH1010606 (Zheng), 09/20/2010–06/01/2013
DoD/TATRC, $703,000
Assessing the Effect of a Handheld Decision-Support Device for Reducing Medication Errors
Role: PI

UB2HA20234 (Rachman), 09/01/2010–08/31/2013
HRSA, $1,999,951
The Community Health Applied Research Network (CHARN)—ARRA-Community Health Applied Research Network: A Community Alliance for Technology Enabled
Role: Co-Investigator

R21OH009441 (Bhavnani), 09/01/2010–08/31/2012
CDC/NIOSH, $418,000
Novel Systems for Rapidly Identifying Toxic Chemicals Based on Worker Symptoms
Role: Site PI

NRCD2 (Johnson), 08/06/2010–08/05/2011
AHRQ, $383,745
EHR Information Design and Usability Toolkit
Role: Expert Panelist

(Eisenberg, Zheng), 05/01/2010–04/30/2011
Office of the Provost, $10,000 (direct costs)
Detecting Catastrophic Events in Student Lives Using an Online Course Management System
Role: Co-PI

R41CA128117 (Nease), 04/01/2010–09/30/2012
NIH/NCI SBIR, $1,295,467
Chronic Disease Management System
Role: Paid Consultant

(Zheng), 12/01/2009–08/31/2011
The Walter J. McNerney Award, $24,397 (direct costs)
Knowledge Management of Management Knowledge: Understanding Current Best Practice among Healthcare Organizations
Role: PI

(Calhoun, Zheng), 06/01/2009–05/31/2010
The Gilbert Whitaker Fund, $9,860 (direct costs)
Practice-Centered Curriculum Research and Development for Graduate Health Information Technology Education
Role: Co-PI

R34MH083032 (King), 04/01/2009–12/31/2012
NIH/NIMH, $700,583
College Students with Elevated Suicide Risk: Enhancing Treatment Linkage
Role: Co-Investigator, Informatics Lead

N010911 (Zheng), 01/01/2009–12/31/2009
Trinity Health System, $14,605
Health IT Evaluation at the Trinity Health System: Review of Research Summaries
Role: PI

(Zheng), 12/01/2008–11/30/2009

Michigan Institute for Clinical and Health Research, $24,326 (direct costs)
A Community–University Partnership to Develop Technology-Enhanced Patient Empowerment Programs for People with Chronic Kidney Disease: Capacity Building, Feasibility Assessments, and Study Refinement
Role: PI

(Armijo), 09/01/2008–08/31/2009
Michigan Department of Community Health, $674,474
The State of Michigan Regional Health Information Exchange Planning Project in South Central Michigan
Role: Paid Consultant

290-07-10073T (McDonnell), 06/01/2008–05/31/2009
AHRQ, $362,402
Use of Dense Display of Data and Information Design Principles in Primary Care Health IT Systems
Role: Paid Consultant

RRP08-248 (Lowery), 06/01/2008–05/31/2009
Veterans Affairs, $63,850 (direct costs)
Information-User-Task Fit and the Utility of the Diabetes Cube
Role: Co-Investigator

(Perry), 06/01/2008–05/31/2009
National Kidney Foundation, $12,000 (direct costs)
Jump Starting the Life Journey of Young Adults Interrupted by Kidney Failure
Role: Co-Investigator

(Patel), 01/01/2008–04/30/2008
Grant Opportunities for Collaborative Spaces (GROCS), $11,000 (direct costs)
Casepedia: A Web 2.0 Case Study Repository Enabling Collaborative Learning
Role: Faculty Advisor

R18HS017191 (Pohl), 09/13/2007–08/31/2011
AHRQ, $1,184,765
A Partnership for Clinician EHR Use and Quality of Care
Role: Co-Investigator

(Richardson), 07/01/2007–06/30/2008
Michigan Institute for Clinical and Health Research, $10,000 (direct costs)
Translating an Internet-Mediated Walking Program into a Feasible Clinical Practice Tool
Role: Co-Investigator

(Diamond), 05/01/2005–04/30/2006
Proctor & Gamble Company, $40,000
Clinical Reminder System for Prevention, Diagnosis and Treatment of Osteoporosis
Role: Research Assistant and Technical Lead

D28HP10107 (Diamond), 07/01/2001–06/30/2005
HRSA, $400,000
Residency Training in GIM/GP
Role: Research Assistant and Technical Lead

(Diamond), 02/01/2001–01/31/2002
Merck & Co., Inc., $20,000 (direct costs)
Prevention of Corticosteroid Induced Osteoporosis

Role: Research Assistant and Technical Lead

(Zheng), 06/01/2000–05/31/2001
Carnegie Mellon University Graduate Student Research Fund, $3,000 (direct costs)
A Field Study of Internet Behavior: Usage Levels and Task Preferences
Role: PI

#9979224 (Loftness), 10/01/1999–09/30/2004
NSF, $844,299
Creating a National Environmental Assessment Toolkit
Role: Paid Consultant

Invited Talks

"*Design, Implementation, and Usability of the Electronic Medical Record Search Engine (EMERSE),*" EMERSE Community Meeting, May 23, 2023

"*UC Academic Health Centers Capabilities - UCI,*" UC Health Harnessing the Power of Real-World Evidence Conference, Irvine, CA, April 19, 2023

"*Principles for Designing and Developing a Workflow Monitoring Tool to Enable and Enhance Clinical Workflow Automation,*" with Danny Wu & Mustafa Ozkaynak, American Medical Informatics Association (AMIA) Webinars Clinical Information Systems Working Group Webinar, October 3, 2022

"*Infrastructures for Enabling Smarter Interface Technology,*" Special Seminar, Research Center for Connected Healthcare Big Data, Zhejiang Lab, Hangzhou, China, November 4, 2019

"*Infrastructures for Enabling Smarter Interface Technology,*" Keynote, The 2019 International Conference on Infrastructures in Healthcare (infraHEALTH '19), Vienna, Austria, May 30, 2019

"*The Natural Language Processing (NLP) Initiative at UC Irvine,*" The Medical Intelligence and Innovation Institute (MI3) Monthly Meeting, Children's Hospital of Orange County (CHOC), Orange, CA, April 8, 2019

"*How much is too much? Understanding the Tipping Point of Clinician Perception of Alert Fatigue with Drug-Drug Interaction Alerts,*" Research Seminar, School of Psychology, Beijing Normal University, Beijing, China, June 29, 2018

"*Informatics-Based Ethnographic Methods to Understand the Behavior and Underlying Reasoning by Medical Providers and Patients,*" Research Seminar, Healthcare Informatics Engineering Research Center, College of Biomedical Engineering and Instrument Science, Zhejiang University, Hangzhou, China, June 24, 2018

"*Electronic Health Records Adoption in the U.S. and the Implications for Data Use and Reuse: Opportunities and Challenges,*" The US–Denmark Workshop on Datafication of Healthcare: Transforming Practices, Roles, and Knowledge, Irvine, CA, August 9, 2017

"*Caveats for Using Electronic Health Records Data in Clinical and Translational Research,*" The National Child Health Research Acceleration through Multi-site Planning (CHAMP) 2017 Annual Meeting, Irvine, CA, January 24, 2017

"*Latest Research on Health Information Technology's Unintended Consequences,*" with Yunan Chen & Ross Koppel, American Medical Informatics Association (AMIA) Webinars, AMIA Webinar Education Center, October 31, 2016

"*Electronic Health Records Adoption and the Implications for Health Services Research,*" Department of Health Policy and Management Research Seminar Series, Gillings School of Global Public Health, University of North Carolina at Chapel Hill, Chapel Hill, NC, October 7, 2016

"*Quantifying the Impact of Health IT on Clinical Workflow,*" Healthcare Informatics Speaker Series, Department of Biomedical and Health Informatics, Children's Hospital of Philadelphia (CHOP), Philadelphia, PA, April 22, 2016

"*Human–Computer Interaction and Processing of Medical Text and Social Media,*" Research Colloquium, Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, Irvine, CA, May 7, 2015

"*Improving Health IT Usability,*" Research Seminar, Division of Biomedical Informatics, School of Medicine, University of California, San Diego, La Jolla, CA, April 20, 2015

"*Introduction to University of Michigan's Master of Health Informatics Program,*" The 2015 Coast Consortium for Biomedical and Health Informatics: A Celebration of Partnerships in Informatics Research and Education, Milwaukee, WI, April 18, 2015

"*Modeling the Impact of Health IT on Clinical Workflow,*" Research Seminar, Department of Biomedical and Health Information Sciences, College of Applied Health Sciences, University of Illinois Chicago, Chicago, IL, November 25, 2014

"*Use of Administrative Data vs. Electronic Health Records for Health Services Research,*" Workshop for Integrating and Discussing Topics in Healthcare (WIDTH), University of Michigan, Ann Arbor, MI, September 26, 2014

"*Modeling the Impact of Health IT on Clinical Workflow,*" John P. McGovern Lectureship in Biomedical Computing and Imaging, School of Biomedical Informatics, University of Texas Health Science Center at Houston, Houston, TX, September 8, 2014

"*Use of EHRs for Performance Monitoring and Quality Improvements: Data Quality, Data Interoperability, and eMeasures,*" Research Seminar, School of Public Health and Military Preventive Medicine, The Fourth Military Medical University, Xi'an, China, June 16, 2014

"*Computational Ethnography: Automated and Unobtrusive Means for Collecting Data in situ for Human–Computer Interaction Studies,*" Research Seminar, Healthcare Informatics Engineering Research Center, College of Biomedical Engineering and Instrument Science, Zhejiang University, Hangzhou, China, June 4, 2014

"*Computational Ethnography: Automated and Unobtrusive Means for Collecting Data in situ for Human–Computer Interaction Studies,*" Seminars on Current Trends of Biomedical Informatics, Division of Biomedical Informatics, School of Medicine, University of California, San Diego, La Jolla, CA, May 16, 2014

"*Collaborative Search in Electronic Health Records,*" Public Health Seminar, Program in Public Health, University of California, Irvine, Irvine, CA, May 12, 2014

"*Popular Apps for Preventive Medicine Physicians—Adoption and Effectiveness of Medical Apps: Current Research Evidence,*" The American College of Preventive Medicine 2014 Annual Meeting (ACPM '14), New Orleans, LA, February 20, 2014

"*Developing an Intelligent and Socially Oriented Search Query Recommendation Service for Facilitating Information Retrieval in Electronic Health Records,*" National Center for Integrative Biomedical Informatics (NCIBI) Tools & Technology Seminars, Ann Arbor, MI, October 3, 2013

"*A Technology-Enabled Information and Decision-Support Infrastructure of Managing Complex Chronic*

Diseases in China," Research Seminar, Wuhou District Health Bureau, Chengdu, China, July 17, 2013

"*Accelerating Health IT Adoption in the U.S.: Opportunities and Challenges*," China Europe International Business School, Shanghai, China, January 31, 2013

"*Modeling the Impact of Health IT on Clinical Workflow*," Research Seminar, IBM Research China, Beijing, China, November 22, 2012

"*Accelerating the Adoption of Health IT and Health Information Exchange*," Research Seminar, School of Medicine, Shanghai Jiaotong University, Shanghai, China, November 20, 2012

"*Modeling the Impact of Health IT on Clinical Workflow*," Stanford Center for Biomedical Informatics Research Colloquium, School of Medicine, Stanford University, Stanford, CA, October 25, 2012

"*Developing an Intelligent and Socially Oriented Search Query Recommendation Service for Facilitating Information Retrieval in Electronic Health Records*," with David Hanauer, Qiaozhu Mei, Lei Yang, Danny Wu, & Katherine Murkowski, Grantee Meeting on Computational Thinking to Support Clinicians and Biomedical Scientists, National Library of Medicine (NLM), Bethesda, MD, June 19, 2012

"*Issues and Approaches for using Time and Motion Methods to Study Workflow in Health IT*," with David Hanauer & Michael Guo, National Center for Integrative Biomedical Informatics (NCIBI) Tools & Technology Seminars, Ann Arbor, MI, November 10, 2011

"*Developing an Intelligent and Socially Oriented Search Query Recommendation Service for Facilitating Information Retrieval in Electronic Health Records*," with Qiaozhu Mei, David Hanauer, William Wilcox, Danny Wu, & Lei Yang, Grantee Meeting on Computational Thinking to Support Clinicians and Biomedical Scientists, National Library of Medicine (NLM), Bethesda, MD, June 22, 2011

"*Health Informatics Research in the U.S.*," Research Seminar, Healthcare Informatics Engineering Research Center, College of Biomedical Engineering and Instrument Science, Zhejiang University, Hangzhou, China, June 19, 2011

"*Biomedical Informatics Supporting International Collaboration: Stories from University of Michigan Health System and Peking University Health Science Center Joint Institute for Translational and Clinical Research*," The 2011 International Biomedical Informatics Forum, Medical Informatics Center, Peking University Health Science Center, Beijing, China, June 7, 2011

"*Assessing the Effect of a Handheld Decision-Support Device for Reducing Medication Errors*," with Todd Gage, Product Line Review Meeting, Telemedicine & Advanced Technology Research Center (TATRC), Department of Defense, Falls Church, VA, March 15, 2011

"*Interface Flow and Cognitive Consistency*," Research Seminar, Chicago Health Information Technology Regional Extension Center (CHITREC), Chicago, IL, October 6, 2010

"*Research and Practice in Health Informatics/Health IT: Opportunities and Challenges*," Research Seminar on Bioinformatics & Proteomics/Genomics, College of Medicine and Life Sciences, University of Toledo, Toledo, OH, August 26, 2009

"*User Reaction to Technology Innovations in Healthcare: A Multi-Site Multi-Approach Study*," Information Systems Research Seminar, Krannert School of Management, Purdue University, West Lafayette, IN, April 4, 2008

"*Clinical Reminder System (CRS) and User Interface Optimization*," National Center for Integrative Biomedical Informatics (NCIBI) Tools & Technology Seminars, Ann Arbor, MI, April 26, 2007

"*Decision Making with Clinical Information Systems*," The Institute for Operation Research and the Management Sciences 2004 Annual Meeting (INFORMS '04), Denver, CO, October 27, 2004

Tutorials / Instructional Workshops

"*Analysis of Human Interactive Behavior for Improving Patient Safety and Clinician Burnout*," with Thomas Kannampallil, Aaron Zachary Hettinger, & Vimla Patel, The American Medical Informatics Association 2022 Annual Symposium (AMIA '22), Washington DC, November 5, 2022

"*Virtual Workshop on UCI Health Research Data Resources*," University of California, Irvine, September 23, 2022

"*Analysis of Human Interactive Behavior for Improving Health IT Usability and Clinical Workflow*," with Thomas Kannampallil, Aaron Zachary Hettinger, & Vimla Patel, The American Medical Informatics Association 2021 Annual Symposium (AMIA '21), San Diego, CA, October 30, 2021

"*Virtual Workshop on How to Request Research Data from UCI Health*," with Mary Alexander, Yi-Cheng (Andrea) Hwang, & Joseph Wu, University of California, Irvine, September 24, 2021

"*Virtual Workshop on the National COVID Cohort Collaborative (N3C) of the NIH National Center for Advancing Translational Sciences (NCATS)*," University of California, Irvine, January 15, 2021

"*Analysis of Human Interactive Behavior for Improving Health IT Usability and Clinical Workflow*," with Thomas Kannampallil, Aaron Zachary Hettinger, & Vimla Patel, The American Medical Informatics Association 2020 Annual Symposium (AMIA '20), Washington DC, November 14, 2020

"*Virtual Workshop on Accessing and Using the NIH All of Us Research Data*," with Hoda Anton-Culver, Erin Saltmarsh, Argyrios Ziogas, & Steven Hiek, University of California, Irvine, August 7, 2020

"*Virtual Workshop on How to Access and Use the UC COVID Research Data Set (UC CORDS)*," University of California, Irvine, June 15, 2020

"*Virtual Workshop on How to Access UCI's De-Identified Electronic Health Records Data for Research*," University of California, Irvine, April 9, 2020

"*Analysis of Human Interactive Behavior for Improving Health IT Usability and Clinical Workflow*," with Thomas Kannampallil, Jan Horsky, & Vimla Patel, The American Medical Informatics Association 2019 Annual Symposium (AMIA '19), Washington DC, November 16, 2019

"*Analysis of Human Interactive Behavior for Improving Health IT Usability and Clinical Workflow*," with Thomas Kannampallil & Vimla Patel, The American Medical Informatics Association 2018 Annual Symposium (AMIA '18), Washington DC, November 4, 2018

"*Analysis of Human Interactive Behavior for Improving Health IT Usability and Minimizing Patient Safety Risks*," with Thomas Kannampallil & Vimla Patel, The American Medical Informatics Association 2017 Annual Symposium (AMIA '17), Washington DC, November 4, 2017

"*Analysis of Human Interactive Behavior for Improving Health IT Usability and Minimizing Patient Safety Risks*," with Thomas Kannampallil & Vimla Patel, The American Medical Informatics Association 2016 Annual Symposium (AMIA '16), Chicago, IL, November 12, 2016

"*Analysis of Human Interaction Behavior for Supporting Health IT Design*," with Kannampallil TG & Patel VL, The American Medical Informatics Association 2012 Annual Symposium (AMIA

'12), Chicago, IL, November 3, 2012

Panel Presentations

Panelist, "*Computational Health*," The Noyce Initiative Research Showcase, University of California, Irvine, Irvine, CA, November 30, 2022

Panelist, "*Public Health Informatics and Technology Workforce Development Program: Overview and Opportunities*," The Commission on Accreditation for Health Informatics and Information Management (CAHIIM) Fall Festival: Summit on Higher Education, September 29, 2022

Panelist, "*A Smarter Future for Pediatric Healthcare*," Institute for Future Health, University of California, Irvine, Irvine, CA, September 19, 2022

Panelist, "*Growing the Public Health Informatics and Technology Workforce*," The 2022 Office of the National Coordinator for Health Information Technology (ONC) Virtual Tech Forum, September 9, 2022

Panelist, "*Artificial Intelligence and Big Data*," The 2019 Annual Symposium of the Michigan Medicine–Peking University Health Science Center Joint Institute for Translational and Clinical Research (Michigan Medicine–PKUHSC JI), Beijing, China, October 31, 2019

Panelist, "*Clinical Workflow: What's the Fuss about?*" The 2019 World Congress on Health and Biomedical Informatics (MedInfo '19), Lyon, France, August 29, 2019

Panelist, "*A Spoonful of Structure Helps the Workload Go Down: Modeling Clinical Cognition in Inpatient Documentation Tools*," The American Medical Informatics Association 2017 Annual Symposium (AMIA '17), Washington DC, November 6, 2017

Panelist, "*Clinical Natural Language Processing Workforce of the Future*," The American Medical Informatics Association (AMIA) 2017 InSpire Academic Forum Conference, La Jolla, CA, June 7, 2017

Panelist, "*Using Big Data to Improve Patient Outcomes & Reimbursement*," The OCTANe Medical Device & Investor Forum, Irvine, CA, October 27, 2016

Panelist, "*Life Sciences Joint Panel*," Research Seminar, Undergraduate Research Opportunity (UROP) Program, University of Michigan, Ann Arbor, MI, March 24, 2015

Panelist, "*Research Scholars Health Sciences Career Panel*," Research Seminar, Undergraduate Research Opportunity (UROP) Program, University of Michigan, Ann Arbor, MI, March 24, 2015

Panelist, "*Preparing for Informatics Careers and Trends in the Age of Meaningful Use*," The American Medical Informatics Association 2013 Annual Symposium (AMIA '13), Washington DC, November 19, 2013

Moderator, "*Challenges and Opportunities in Consumer Health Informatics for Older Adults: Interdisciplinary Viewpoints*," The American Medical Informatics Association 2012 Annual Symposium (AMIA '12), Chicago, IL, November 6, 2012

Moderator, "*Opportunities and Challenges in Designing Interactive Systems for Patient–Provider Communication*," The 2012 Workshop on Interactive Systems in Healthcare (WISH '12), Chicago, IL, November 3, 2012

Panelist, "*21st Century Health Care Management Education: Confronting Challenges for Innovation with a Modern Curriculum*," Harvard Business School, Boston, MA, October 4–5, 2012

Panelist, "*Health Informatics Research at the Team Level*," The 2012 Annual Healthcare Organizational Research Association (HORA) Conference, Ann Arbor, MI, June 8, 2012

Panelist, Workshop on Securing Information Technology in Healthcare: Part II, Institute for Security, Technology, and Society (ISTS), Dartmouth College, Hanover, NH, May 16, 2012

Moderator, "*ONC Regional Extension Centers: Experience after Six Months*," The American Medical Informatics Association 2010 Annual Symposium (AMIA '10), Washington DC, November 15, 2010

Panelist, Workshop on Health Care IT Usability: Strategy, Research, and Implementation, Office of the National Coordinator for Health Information Technology (ONC) and National Institute of Standards and Technology (NIST), Gaithersburg, MD, July 13, 2010

Moderator, "*Health Information Technology*," FutureTech Conference, Stephen M. Ross School of Business, University of Michigan, Ann Arbor, MI, December 4, 2009

Panelist, Workshop on Electronic Health Record Usability: Interface Design Considerations, Agency for Healthcare Research and Quality (AHRQ), Rockville, MD, February 27, 2009

Panelist, "*The Role of HCI in Biomedical Informatics: Untapped Opportunities for Broad Social Impact*," The 2009 Human Computer Interaction Consortium (HCIC '09), Winter Park, CO, February 7, 2009

Internal Presentations

"*UCI Health Research Data Resources*," Department of Surgery, School of Medicine, College of Health Sciences, University of California, Irvine, Irvine, CA, October 29, 2022

"*UCI Health Research Data Resources*," School of Pharmacy and Pharmaceutical Sciences, College of Health Sciences, University of California, Irvine, Irvine, CA, September 29, 2022

"*Clinical Informatics*," The Technology in Medicine Symposium, School of Medicine, College of Health Sciences, University of California, Irvine, Irvine, CA, September 28, 2022

"*UCI Health Data Resources*," Department of Ophthalmology, School of Medicine, College of Health Sciences, University of California, Irvine, Irvine, CA, September 21, 2020

"*UCI Health Data Resources*," Department of Clinical Pharmacy Practice, School of Pharmacy and Pharmaceutical Sciences, College of Health Sciences, University of California, Irvine, Irvine, CA, September 4, 2020

"*Research Trends in Biomedical and Health Informatics*," Seminar, Summer Undergraduate Research Fellowship in the Internet of Things (SURF-IoT), University of California, Irvine, Irvine, CA, August 18, 2020

"*Introduction to Medical/Health Informatics*," Seminar, International Summer Undergraduate Research Fellowship (I-SURF), University of California, Irvine, Irvine, CA, August 21, 2019

"*Data Security and Privacy Protection*," Global Health Research Lectures Series, School of Medicine, University of California, Irvine, Irvine, CA, May 7, 2018

"*Adoption and Effectiveness of Medical Apps: Current Research Evidence*," HackUCI 2017, Irvine, CA, January 14, 2017

"*Informatics Research on Usability and Workflow Impacts of Health IT*," with Charles Friedman & Sue Schade, Presentation to the Medical Affairs Advisory Committee (MAAC), University of

Michigan Health System, Ann Arbor, MI, April 8, 2015

"*Health Informatics for Computerized Clinical Decision Support,*" Conference on Health Management: Connecting China to the U.S., School of Kinesiology, University of Michigan, Ann Arbor, MI, September 22, 2014

"*Electronic Health Records for Performance Monitoring and Patient Outcomes Improvement: Data Quality, Data Interoperability, and eMeasures,*" Special Research Seminar, Kidney Epidemiology and Cost Center (KECC), University of Michigan, Ann Arbor, MI, May 22, 2014

"*An EHR Companion Tool for Integrating Clinical Research into Patient Care Routines,*" The Ignition Chamber, Office of Technology Transfer, University of Michigan, Ann Arbor, MI, April 2, 2014

"*Studying the Impacts of Health IT Adoption on Clinical Workflow,*" Research Seminar, Health Informatics Research Interest Group (HI-RIG), University of Michigan, Ann Arbor, MI, February 3, 2014

"*A Technology-Enabled Information and Decision-Support Infrastructure of Managing Complex Chronic Diseases in China,*" The 2012 Annual Symposium of the Michigan Medicine–Peking University Health Science Center Joint Institute for Translational and Clinical Research (Michigan Medicine–PKUHSC JI), Ann Arbor, MI, November 29, 2012

"*Health Informatics: Opportunities and Challenges,*" Presentation to the Michigan Cardiovascular Outcomes Research and Reporting Program (MCORRP), Ann Arbor, MI, June 22, 2012

"*Health Informatics: Bridging Clinical Applications with Consumer-Centered Applications,*" Research Seminar, Center for Health Communications Research (CHCR), University of Michigan, Ann Arbor, MI, July 15, 2010

"*Advances in Health Informatics,*" Global Health Science and Engineering Seminar, College of Engineering, University of Michigan, Ann Arbor, MI, March 16, 2010

"*Health Informatics: Opportunities and Challenges,*" Special Research Seminar, Medical School Information Technology (MCIT), University of Michigan, Ann Arbor, MI, February 24, 2010

"*Recent Topics in Biomedical Informatics Research,*" Seminar on Bioinformatics, Undergraduate Research Opportunity Program (UROP), University of Michigan, Ann Arbor, MI, July 9, 2008

"*User Reaction to Technology Innovations in Healthcare: A Multi-Site Multi-Approach Study,*" Interdisciplinary Committee on Organizational Studies (ICOS) Lectures, University of Michigan, Ann Arbor, MI, April 11, 2008

"*A Partnership for Clinician EHR Use and Quality of Care,*" with Joanne Pohl, Research Seminar, School of Nursing, University of Michigan, Ann Arbor, MI, April 2, 2008

"*Social Contagion and IT Adoption of Healthcare Professionals,*" Networks Seminar, School of Information, University of Michigan, Ann Arbor, MI, March 15, 2007

"*Understanding Technology Adoption in Clinical Care: Clinician Adoption Behavior of a Point-of-Care Reminder System,*" Research Seminar, Health Informatics Research Organization (HIRO), University of Michigan, Ann Arbor, MI, December 13, 2006

"*Clinical Reminder System (CRS) and User Interface Optimization,*" Research Seminar, Health Informatics Research Organization (HIRO), University of Michigan, Ann Arbor, MI, November 29, 2006

Poster Presentations

Poster presentation of archived proceeding abstracts not listed.

"*Relative Risks of COVID-19-associated hospitalizations and clinical outcomes by age and race/ethnicity – March 2020 – March 2021,*" with Catherine Bozio, Kristen Butterfield, Stephanie Irving, Gabriela Vazquez-Benitez, Toan Ong, Sarah Ball, Allison Naleway, Michelle Barron, & Carrie Reed, OPITONS XI for the Control of Influenza, Belfast, UK, September 26–29, 2022

"*Understanding Barriers to and Facilitators of Mobile Health Implementation in a Multi-County Digital Mental Health Project,*" with Eduardo Ceballos-Corro, Jorge Castro, Kera Mallard-Swanson, Kristina Palomares, Nicole Stadnick, Stephen Schueller, Elizabeth Eikey, Margaret Schneider, Dana Mukamel, & Dara Sorkin. The Society for Implementation Research Collaboration (SIRC) Conference, San Diego, CA, September 8–10, 2022

"*Evaluation of a Pilot Implementation of a Digital Cognitive-Behavioral Therapy Platform for County Mental Health Services,*" with Rosa Hernandez-Ramos, Kristina Palomares, Eduardo Ceballos-Corro, Stephen Schueller, Nicole Stadnick, Elizabeth Eikey, Margaret Schneider, Dana Mukamel, & Dara Sorkin, The Society for Implementation Research Collaboration (SIRC) Conference, San Diego, CA, September 8–10, 2022

"*Mental Health During the COVID-19 Pandemic and the Role of Mindfulness Apps,*" with Judith Borghouts, Alan Dominguez, Daniel Mansour, Elizabeth Eikey, Stephen Schueller, Margaret Schneider, Nicole Stadnick, Dana Mukamel, & Dara Sorkin, The 102nd Annual Meeting of the Western Psychological Association, Portland, OR, April 27–May 1, 2022

"*A Market Analysis of Digital Mental Health Products Driven by A Statewide Implementation Project,*" with John Bunyi, Martha Neary, Nicole Stadnick, Stephen Schueller, Elizabeth Eikey, Gloria Mark, Margaret Schneider, Dana Mukamel, & Dara Sorkin, The Association for Behavioral and Cognitive Therapies 54th Annual Convention, Philadelphia, PA, November 18–22, 2020

"*A Novel Application of the Rapid Assessment Procedure Informed Clinical Ethnography in a Statewide mobile Health (mHealth) Implementation,*" with Kera Mallard-Swanson, Nicole Stadnick, Stephen Schueller, Elizabeth Eikey, Gloria Mark, Margaret Schneider, Dana Mukamel, & Dara Sorkin, The Association for Behavioral and Cognitive Therapies 54th Annual Convention, Philadelphia, PA, November 18–22, 2020

"*Curating the Digital Mental Health Landscape with A Guide to Behavioral Health Apps: A Country-Driven Resource,*" with Robert Montgomery, Lamar Brandysky, Martha Neary, Stephen Schueller, Nicole Stadnick, Elizabeth Eikey, Gloria Mark, Margaret Schneider, Dana Mukamel, & Dara Sorkin, The Association for Behavioral and Cognitive Therapies 54th Annual Convention, Philadelphia, PA, November 18–22, 2020

"*Patient-Facing Tools That Collect History to Characterize Acute Complaints: A Scoping Review,*" with Carl Berdahl, Andrew Henreid, Joshua Pevnick, Teryl Nuckols, The Society for Academic Emergency Medicine 2020 Virtual Meeting, May 14, 2020

"*Recruitment and Participant Diversity in the NIH "All of Us" Research Program: Health Care Providers Engagement,*" with Steven Chessler, Argyrios Ziogas, Claudin Gomez, Benedetta Bartali, Jenny Chang, John Billimek, Candis Burton, Farah Toullier, Hannah Park, Emily Dow, & Hoda Anton-Culver, The October 2019 All of Us Face to Face Meeting, Bethesda, MD, October 28–30, 2019

"*Characteristics of Participants Likely to Predict Retention Outcome,*" with Argyrios Ziogas, Claudin Gomez, Benedetta Bartali, Jenny Chang, Farah Toullier, & Hoda Anton-Culver, The October 2019 All of Us Face to Face Meeting, Bethesda, MD, October 28–30, 2019

"*Challenges of Applying Sentiment Analysis on Health-related Social Media Data*," with Tingjue Yin & Lu He, The 2019 Southern California Natural Language Processing Symposium (SoCal NLP '19), Los Angeles, CA, September 13, 2019 (Best Poster Award)

"*Profiles of Help-Seeking among College Students at Elevated Risk for Suicide and the Tole of Racial and Ethnic Identification*," with Danielle Busby, Daniel Eisenberg, Ronald Albucher, Todd Favorite, William Coryell, Jacqueline Pistorello, & Cheryl King, International Society for Research in Child and Adolescent Psychopathology, Los Angeles, CA, June 28, 2019

"*Emotion and Thought Responses in Diet and Fitness Apps: A Learning Process*," with Qiuer Chen, Alec Diaz, Soros Chokanarotewong, Christopher Frye, & Elizabeth Eikey, Undergraduate Research Symposium, University of California, Irvine, Irvine, CA, May 18, 2019

"*Perceived Barriers to Mental Health Service Utilization among Gender and Sexual Minority College Students*," with Timothy Mayer, Danielle Busby, Daniel Eisenberg, Adam Horwitz, & Cheryl King, The 2019 Annual Depression on College Campuses Conference (DOCC '19), Ann Arbor, MI, March 13, 2019

"*Examination of Barriers to Mental Health Service Use and Readiness to Engage in Help-Seeking among Black College Students*," with Danielle Busby, Daniel Eisenberg, Ronald Albucher, Todd Favorite, William Coryell, Jacqueline Pistorello, Rebecca Lindsay, Kristin Aho, & Cheryl King, The 2019 Annual Depression on College Campuses Conference (DOCC '19), Ann Arbor, MI, March 13, 2019

"*Depression, Alcohol Misuse, Suicidal Ideation, and Suicide Attempts in Sexual and Gender Minority College Students*," with Adam Horwitz, Johnny Berona, Daniel Eisenberg, Jacqueline Pistorello, Ronald Albucher, William Coryell, Todd Favorite, & Cheryl King, The 2019 Annual Depression on College Campuses Conference (DOCC '19), Ann Arbor, MI, March 13, 2019

"*Establishing a National Population Health Management System for Kidney Disease: The Veterans Health Administration Renal Information System (VA-REINS)*," with Rajiv Saran, Vahakn Shahinian, Aaron Pearson, Anca Tilea, Diane Steffick, Jennifer Bragg-Gresham, Michael Heung, Hal Morgenstern, David Hutton, Aleksandar Milovanovic, Brenda Gillespie, Alan Leichtman, Eric Young, Ann O'Hare, Michael Fisher, John Hotchkiss, Denise Hynes, Linda Fried, Edward Siew, Daniel Balkovetz, Karen Sovern, Chuan-Fen Liu, & Susan Crowley, The American Society of Nephrology 2016 Annual Meeting (ASN '16), Chicago, IL, November 17, 2016

"*How the Bio-Repository and Biomedical Informatics Core May Help with Your Project*," with Yanfang Wang, Andy Lin, Manhong Dai, Huiying Qi, Shibin Song, Jiangguang Guo, & Fan Meng, The 2015 Annual Symposium of the Michigan Medicine–Peking University Health Science Center Joint Institute for Translational and Clinical Research (Michigan Medicine–PKUHSC JI), Beijing, China, October 27, 2015

"*Bridging the Gap between Information Availability and Utility in Healthcare*," with Esha Sondhi, Trish O'Brien, Yang Liu, VGVinod Vydiswaran, Qiaozhu Mei, & David Hanauer, Spring Research Symposium, Undergraduate Research Opportunity Program (UROP), University of Michigan, Ann Arbor, MI, April 22, 2015

"*Study on User-Created Groups in Health Forums*," with Vinod Vydiswaran, Yang Liu, David Hanauer, & Qiaozhu Mei, The 2014 Annual Pediatric Research Symposium, Department of Pediatrics and Communicable Diseases, University of Michigan, Ann Arbor, MI, October 6, 2014

"*Bridging the Gap between Information Availability and Information*," with Danny Wu, David Hanauer, Qiaozhu Mei, Patricia Clark, Lawrence An, & Vinod Vydiswaran, The 2014 Annual Pediatric Research Symposium, Department of Pediatrics and Communicable Diseases, University of Michigan,

Ann Arbor, MI, October 6, 2014

"*Mining Social Media Data for the Patterns of Spatiotemporal Dissemination of Health-Related Information and Concerns*," with Qiaozhu Mei & David Hanauer, The 2013 MCubed Symposium, University of Michigan, Ann Arbor, MI, November 15, 2013

"*Designing Cutting-Edge Health Visualizations for Diabetes*," with Joyce Lee, Fan Meng, Karen Peterson, Barbara Mirel, & Matthew Kenyon, The 2013 MCubed Symposium, University of Michigan, Ann Arbor, MI, November 15, 2013

"*Bridging the Gap between Information Availability and Information Utility When Sharing Narrative Clinician Notes with Patients*," with David Hanauer, Qiaozhu Mei, Patricia Clark, & Lawrence An, The National Cancer Institute and the Centers of Excellence in Cancer Communication Research (CECCRs) 2013 Grantee Meeting, Ann Arbor, MI, August 19, 2013 (Best Poster Award, 3rd Place)

"*EMERSE: A Search Tool for Free-text Electronic Health Record Documents*," with David Hanauer & Qiaozhu Mei, The 2013 Annual Mid-Atlantic Healthcare Informatics Symposium, Children's Hospital of Philadelphia, Philadelphia, PA, April 26, 2013

"*Pediatrac™Developmental Tracking Mobile App*," with Tala Dahbour, Billy McCloskey, Jim Lyddy, Tom Schmitt, Judi Brooks, Angela Lukomski, Beaudry Kock, Katherine Rosenblum, Prachi Shah, Jennifer Smith, Elise Hodges, & Renee Lajiness-O'Neill, Spring Research Symposium, Undergraduate Research Opportunity Program (UROP), University of Michigan, Ann Arbor, MI, April 24, 2013 (Outstanding Poster Award)

"*A Low-Cost Platform for Support of a Joint Institute Study*," with Andy Lin, Manhong Dai, Huiying Qi, Jianguang Guo, Fan Meng, & Yanfang Wang, The 2012 Annual Symposium of the Michigan Medicine–Peking University Health Science Center Joint Institute for Translational and Clinical Research (Michigan Medicine–PKUHSC JI), Ann Arbor, MI, November 28, 2012

"*Capturing Electronic Research Data with Optical Mark Recognition Software*," with Andy Lin, Manhong Dai, Elizabeth Wu, Elizabeth Speliotes, Yanfang Wang, & Fan Meng, The 2012 Annual Symposium of the Michigan Medicine–Peking University Health Science Center Joint Institute for Translational and Clinical Research (Michigan Medicine–PKUHSC JI), Ann Arbor, MI, November 28, 2012

"*Improving Recruitment of Children into Clinical Trials using Apple iPads*," with David Hanauer, Paul Robichaux, Kate Fitzgerald, & Molly White, The 2012 Annual Healthcare Informatics Symposium, Children's Hospital of Philadelphia, Philadelphia, PA, April 27, 2012

"*Evaluation of a Renal Team Learning Module on Working with Young Adults (YA) with Chronic Kidney Failure (CKF)*," with Julia Herzog, Erica Perry, Hannah Cayton, Brett Plattner, Lisa Twining, & Susan Rees, The 2012 Partners for Healthy Communities Symposium, Michigan Institute for Clinical and Health Research (MICHR), University of Michigan, Ann Arbor, MI, April 25, 2012

"*Clinician Satisfaction and Use of EHR among Safety-Net Providers: Quantitative and Qualitative Findings*," with Clare Tanner, Andrew Hamilton, Debra McGrath, & Joanne Pohl, The Agency for Healthcare Research and Quality (AHRQ) 2010 Annual Conference, Bethesda, MD, June 2, 2010

"*Improving the Dialysis Experience with the Use of Technology*," with Crampton K, Newman MW, & Meadowbrooke C, A World Kidney Day, University of Michigan Health System, Ann Arbor, MI, March 11, 2010

"*Patterns of Collaborative Search in Narrative Patient Records,*" with David Hanauer, The 2009 Annual Pediatric Research Symposium, Department of Pediatrics and Communicable Diseases, University of Michigan, Ann Arbor, MI, November 9, 2009

"*RFID-enabled Process Visualization and Analysis in Ambulatory Care,*" with Yi-Chin Lin & Rema Padman, The Institute for Operation Research and the Management Sciences 2009 Annual Meeting (INFORMS '09), San Diego, CA, October 13, 2009

"*Understanding the Relationship Between Meaningful Use of EHRS and Quality of Care in Safety Net Settings,*" with Erin Kaleba, Fred Rachman, Andrew Hamilton, Joanne Pohl, Debra McGrath, & Clare Tanner, The National Association of Community Health Centers 2009 Community Health Institute and EXPO, Chicago, IL, August 21, 2009

"*Bringing an Internet-Based Walking Program to Family Practice: A Formative and Feasibility Study,*" with Megan Ditty, David Goodrich, Lorraine Buis, Christine Krause, & Caroline Richardson, Research Seminar, Summer Research Opportunity Program (SROP), University of Michigan, Ann Arbor, MI, July 25, 2009

"*A Partnership Model to Facilitate EHRS Adoption and Improvement of Quality of Care in Safety Net Providers,*" with Clare Tanner, Joanne Pohl, Andrew Hamilton, & Debra McGrath, The 2009 Partners for Healthy Communities Symposium, Michigan Institute for Clinical and Health Research (MICHR), University of Michigan, Ann Arbor, MI, May 11, 2009

"*University of Michigan and National Kidney Foundation of Michigan Partnership—Building and Evaluating Technology-Enhanced Patient Empowerment Programs,*" with Erica Perry, Mark Newman, & Tiffany Veinot, The 2009 Partners for Healthy Communities Symposium, Michigan Institute for Clinical and Health Research (MICHR), University of Michigan, Ann Arbor, MI, May 11, 2009

"*RFID-Enabled Service Delivery and Process Analysis in Ambulatory Care: A Case Study,*" with Yi-Chin Lin, Rema Padman, Francis Solano, Jody Cervenak, & Ari Naim, The 2008 Mayo Clinic Conference on Systems Engineering & Operations Research in Health Care, Mayo Clinic, Rochester, MN, September 22, 2008

"*Electronic Health Records: Evaluate for Success,*" with Joanne Pohl, Clare Tanner, Andrew Hamilton, Debra McGrath, Judi Harris, & Tiffani Onifade, The Agency for Healthcare Research and Quality (AHRQ) 2008 Annual Conference, Bethesda, MD, September 8, 2008

"*User Acceptance and Adoption of a Clinical Reminder System: A Developmental Trajectory Approach,*" with Padman R, Johnson MP, & Diamond HS, The 2014 Medical Robotics and Information Technology for Medicine and Surgery (MERITS) of Pittsburgh Exposition, Pittsburgh, PA, January 16, 2004

"*Clinical Reminder System: A Relational Database Application for Evidence-based Medicine Practice,*" Health Services Research Seminar Series, Center for Research on Health Care, University of Pittsburgh, Pittsburgh, PA, September 19, 2000

Professional Activities

Advisory Boards

- Member, EHR Safety Technical Advisory Panel, The Joint Commission, 2022
- Member, Expert Stakeholder Panel, VA Coordinating Hub to Promote Research Optimizing Veteran-centric EHR Networks (PROVEN), Veterans Affairs, 2021–present
- Member, Expert Advisory Committee, Using Electronic Health Record Audit Logs to Capture

Contextual Contributors to Diagnostic Performance (Julia Adler-Milstein, PI), Gordon and Betty Moore Foundation, 2019–present

- Member, Steering Committee, Applied Digital Health Initiative, University of California, Irvine, 2019–present
- Member, Advisory Board, Opioid Hackathon, University of California Institute for Prediction Technology, 2019
- Scientific Advisor, Sync for Science (S4S), 2018–2020
- Member, Committee of Visitors, Directorate for Social, Behavioral & Economic Sciences (SBE), National Science Foundation (NSF), 2016

Professional Society

- Member, Elections and Nominations Committee, American College of Medical Informatics (ACMI), 2024–
- Member, Awards Committee, American Medical Informatics Association (AMIA), 2020–2021
- **Chair, Clinical Information Systems Working Group, American Medical Informatics Association (AMIA), 2019–2020**
- Chair-Elect, Evaluation Working Group, American Medical Informatics Association (AMIA), 2019
- Member, Organizing Committee, The US–Denmark Workshop on Datafication of Healthcare: Transforming Practices, Roles, and Knowledge, 2017
- Institutional Representative, American Medical Informatics Association (AMIA) Academic Forum, University of California, Irvine, 2016–2017
- Institutional Representative, American Medical Informatics Association (AMIA) Academic Forum, University of Michigan, 2014–2015
- **Chair, Usability Track, The 2014 i2b2/UTHealth Shared-Tasks and Workshop on Challenges in Natural Language Processing for Clinical Data, 2014**
- Member, The SMART Collaborative, Office of the National Coordinator for Health Information Technology (ONC), 2013–2014
- Member, The Structured Data Capture Initiative, Office of the National Coordinator for Health Information Technology (ONC), National Library of Medicine (NLM), and Agency for Healthcare Research and Quality (AHRQ), 2013–2014
- Organizing Committee, The 2013 Workshop on Interactive Systems in Healthcare: Bridging Communities (WISH '13), 2013
- Member, American Medical Informatics Association (AMIA) Education Committee, 2012–2014
- **Chair, Organizational and Social Issues Working Group, International Medical Informatics Association (IMIA), 2011–2013**
- Faculty Mentor, American Medical Informatics Association (AMIA) Mentorship Program, 2010–2017

Journal Editing

- Co-Editor, Special Focus Issue on Clinician Burnout: Informatics Perspectives, Journal of the American Medical Informatics Association (JAMIA), 2020
- **Editorial Board, Journal of Biomedical Informatics (JBI), 2018–2025**
- Editorial Board, Yearbook of Medical Informatics 2016, International Medical Informatics Association (IMIA), 2016

- Editorial Board, The China Health Review, 2015–present
- Editorial Review Board, International Journal of Healthcare Information Systems and Informatics (IJHISI), 2007–2015

Conference Committees

- Scientific Planning Committee, The 2024 University of California Health Systemwide Conference, 2023–2024
- **Co-Chair, The 2020 American College of Medical Informatics (ACMI) Winter Symposium, 2019–2020**
- Member, Scientific Program Committee, The American Medical Informatics Association 2019 Annual Symposium (AMIA '19), 2018–2019
- Co-Chair, Minitrack on Health Technologies that Interface Patients and Providers, The 2018 Hawaii International Conference on System Sciences (HICSS–51), 2018
- **Co-Chair, Program Committee, The 2016 IEEE International Conference on Healthcare Informatics (ICHI '16), 2015–2016**
- Member, Steering Committee, Workshop on Interactive Systems in Healthcare (WISH), 2014, 2016–2019
- Poster Judge, The American Medical Informatics Association Annual Symposium, 2014, 2016–2018
- Associate Editor, Healthcare Track, The 2014 International Conference on Information Systems (ICIS '14), 2014
- Judge, The 2013 Health Informatics Society (HISo) Case Competition, University of Michigan, Ann Arbor, MI, 2013
- Member, Program Committee, The 2013 International Health Informatics Conference (IHIC '13), 2013
- Member, Program Committee, The 2013 IEEE International Conference on Healthcare Informatics (ICHI '13), 2013
- Associate Editor, IT for Health Care Management Track, The 2012 International Conference on Information Systems (ICIS '12), 2012
- Member, Program Committee, The 2010 ACM International Conference on Health Informatics (IHI '10), 2010
- Session Chair, Human-Centered Design of Health Informatics Systems, The 2010 ACM International Conference on Health Informatics (IHI '10), 2010
- Member, Program Committee, The 2008 IEEE International Workshop on Biomedical and Health Informatics, 2008
- Member, Program Committee, The 2007 IEEE International Workshop on Knowledge Discovery and Management, 2007

Volunteer

- Technology Advisor, Floating Doctors (an all-volunteer non-profit medical relief team dedicated to reducing the present and future burden of disease in the developing world), 2012
- Technology Advisor, The Project of Raxa Jan Swasthya Sahyog (JSS) EMR (an open source information management system to be implemented at a healthcare NGO in a rural community in India), 2011–2012

Paper Review

ACM Conference on Human Factors in Computing Systems (CHI); ACM International Conference on Health Informatics (IHI); ACM Transactions on the Web; Advances in Life Science and Medicine; American Journal of Managed Care; American Journal of Preventive Medicine; American Medical Information Association Annual Symposium (AMIA); Applied Clinical Informatics (ACI); BioMed Research International; British Medical Journal (BMJ) Quality & Safety; British Medical Journal (BMJ); Diabetes Research and Clinical Practice; Electronic Commerce Research and Applications; Entropy, Multidisciplinary Digital Publishing Institute; Expert Systems With Applications; Frontiers in Public Health, section Disaster and Emergency Medicine; Health Care Management Review; Health Expectations; Health Informatics Journal; Health Policy and Technology; IBM Journal of Research and Development; IEEE Access; IEEE Journal of Biomedical and Health Informatics; Information & Management; Information Systems Research (ISR); International Conference on Information Systems (ICIS); International Conference on Intelligent Biology and Medicine (ICIBM); International Conference on Pervasive Computing Technologies for Healthcare (PervasiveHealth); International Journal of Healthcare Information Systems and Informatics; International Journal of Medical Informatics (IJMI) Special Issue on Supporting Collaboration in Healthcare Settings: The Role of Informatics; International Journal of Medical Informatics (IJMI); Jones & Bartlett Learning; Journal of Biomedical Informatics (JBI) Special Issue on Cognitive Informatics Methods for Interactive Clinical Systems; Journal of Biomedical Informatics (JBI); Journal of Biomedical Science (BMC) Health Services Research; Journal of Biomedical Science (BMC) Medical Education; Journal of Biomedical Science (BMC) Medical Informatics and Decision Making; Journal of Biomedical Science (BMC) Research Notes; Journal of Empirical Legal Studies; Journal of Environmental Research and Public Health; Journal of Health Care for the Poor and Underserved; Journal of Healthcare Engineering; Journal of Healthcare Management; Journal of Independent Studies and Research – Computing; Journal of Information Technology & Software Engineering; Journal of Intelligent Systems; Journal of Law, Medicine & Ethics; Journal of Medical Internet Research (JMIR); Journal of Medical Systems; Journal of Pain Research; Journal of Software: Evolution and Process; Journal of the American Medical Informatics Association (JAMIA) Special Issue on Interactive Systems for Patient-Centered Care to Enhance Patient Engagement; Journal of the American Medical Informatics Association (JAMIA); Journal of the American Society for Information Science and Technology (JASIST); Management Science; Medical Care Research and Review; Medical Care; Methods of Information in Medicine; PLOS ONE; Springer-Verlag London Ltd.; The Scientific Pages of Psychiatry; Workshop on Interactive Systems in Healthcare (WISH); Yearbook of Medical Informatics, International Medical Informatics Association (IMIA)

Study Section & Grant Review

- Ad Hoc Reviewer, KL-2 Program, Institute for Clinical and Translational Science (ICTS), University of California, Irvine, July 2023

- Ad Hoc Reviewer, Pilot Award Program, Center for Clinical and Translational Science, The Ohio State University, March 2022

- **Study Section Standing Member, Healthcare Information Technology Research (HITR), Agency for Healthcare Research and Quality (AHRQ), October 2019– October 2021**

- Ad Hoc Reviewer, Healthcare Information Technology Research (HITR), Agency for Healthcare Research and Quality (AHRQ), May 2019

- Ad Hoc Reviewer, Special Emphasis Panel ZRG1-HDM-Z (52), NIH, February 2018

- Ad Hoc Reviewer, Biomedical and Health Informatics Pilot Funding Program, Institute for Clinical and Translational Science (ICTS), University of California, Irvine, January 2018

- Ad Hoc Reviewer, Biomedical and Health Informatics Pilot Funding Program, Institute for Clinical and Translational Science (ICTS), University of California, Irvine, November 2017

- Ad Hoc Reviewer, Pilot Award Program, Translational Research Institute, University of Arkansas for Medical Sciences, April 2017
- Ad Hoc Reviewer, Business Innovation Program Development Loan, Maine Technology Institute, April 2016
- Ad Hoc Reviewer, Biomedical and Health Informatics Pilot Funding Program, Institute for Clinical and Translational Science (ICTS), University of California, Irvine, April 2016
- Ad Hoc Reviewer, HSR-3/8, Health Services Research and Development (HSR&D), Department of Veterans Affairs, March 2016
- Ad Hoc Reviewer, HSR-3/8, Health Services Research and Development (HSR&D), Department of Veterans Affairs, August 2015
- Ad Hoc Reviewer, Division of Humanities and Social Sciences, Swiss National Science Foundation, Switzerland, August 2014
- Ad Hoc Reviewer, Pilot Funding Program, Michigan Medicine–Peking University Health Science Center Joint Institute for Translational and Clinical Research (Michigan Medicine–PKUHSC JI), August 2014
- Ad Hoc Reviewer, Global Public Health Internship Funding Program, Office of Global Public Health, School of Public Health, University of Michigan, March 2014
- Ad Hoc Reviewer, MCNerney Apps, Department of Health Management and Policy, School of Public Health, University of Michigan, January 2014
- Ad Hoc Reviewer, Business Innovation Program Development Loan, Maine Technology Institute, August 2013
- Ad Hoc Reviewer, Health Care Technology and Decision Science (HTDS), Agency for Healthcare Research and Quality (AHRQ), June 2013
- Ad Hoc Reviewer, Pilot Funding Program, Michigan Institute for Clinical and Health Research (MICHR), University of Michigan, April 2013
- Ad Hoc Reviewer, Quod Erat Demonstrandum Program, University City Science Center, November 2012
- Ad Hoc Reviewer, Novel Presentation of Health Related Data (NPHRD), U.S. Army Medical Research Acquisition Activity (USAMRAA), July 2012
- Ad Hoc Reviewer, HSR-3/8, Health Services Research and Development (HSR&D), Department of Veterans Affairs, March 2012
- Ad Hoc Reviewer, University of Michigan Center for Health Communications Research, University of Michigan, September 2010
- Ad Hoc Reviewer, Military Medical Research and Development, U.S. Army Medical Research Acquisition Activity (USAMRAA), July 2010
- Ad Hoc Reviewer, Research Excellence Program, Ontario Ministry of Research and Innovation, Canada, November 2009
- Ad Hoc Reviewer, Maryland Industrial Partnerships Program, June 2009
- Ad Hoc Reviewer, Medical Innovation Center, University of Michigan, April 2009

Program and Accreditation Review

- Ad Hoc Reviewer, UCLA Proposal for a Master of Data Science in Health (MDSH) Self-Supporting Graduate Professional Degree Program, Coordinating Committee on Graduate Affairs (CCGA), Academic Senate, University of California, November 2022
- Ad Hoc Reviewer, UCSD Proposal for a Self-Supporting Professional Graduate Degree Program in Health Informatics for the Master of Science Degree, Coordinating Committee on Graduate Affairs (CCGA), Academic Senate, University of California, December 2016

- Ad Hoc Reviewer, UCLA Proposal for a Program of Graduate Studies in Biomedical Informatics for the PhD and MS Degrees, Coordinating Committee on Graduate Affairs (CCGA), Academic Senate, University of California, December 2015

- Ad Hoc Reviewer, National Commission for Academic Accreditation & Assessment, Umm Al Qura University, Mecca, Kingdom of Saudi Arabia, February 2013

- Ad Hoc Reviewer, Proposal for a Master of Science in Medical Informatics, Michigan Technological University, Presidents Council, State Colleges and Universities of Michigan, December 2011

Other Review

- Ad Hoc Reviewer, Final Performance Review, Pennsylvania Department of Health 2014 Non-Formula Final Grants (Big Data), June 2020

- Ad Hoc Reviewer, Final Performance Review, Commonwealth Universal Research Enhancement Program (CURE), Pennsylvania Department of Health, 2017–2018 Cycle A, November 2017

- Ad Hoc Reviewer, Final Performance Review, Commonwealth Universal Research Enhancement Program (CURE), Pennsylvania Department of Health, 2015–2016 Cycle A, March 2016

- Draft Report Reviewer, Office of Policy Development & Research, Department of Housing and Urban Development (HUD), May 2015

University & School Service

Departmental committees not listed.

- NEED UPDATE! UCI representatives, UC MODERN Initiative, University of California, Irvine, 2022–present

- Chair, Subcommittee on Data Security/Access, DISCOVER Genomics/Genetics Committee, School of Medicine, University of California, Irvine, 2022–present

- Member, Systemwide Real World Evidence Collaborative, Center for Data-driven Insights and Innovation (CDI2), University of California Office of the President, 2022–present

- Member, Faculty Advisory Committee, Certificate Program in Public Health Informatics and Data Science, Division of Continuing Education, University of California, Irvine, 2022–present

- Member, Hellman Advisory Panel, Society of Hellman Fellows Program, University of California, Irvine, 2022

- Member, Research Governance & IT Committee, UCI Health, University of California, Irvine, 2021–present

- Member, Faculty Search Committee, Susan Samueli Integrative Health Institute, University of California, Irvine, 2021–2022

- Member, Faculty Search Committee, Department of Pathology & Laboratory Medicine, School of Medicine, University of California, Irvine, 2021–2022

- Voting Member, Health Data Governance Committee (HDGC), Susan & Henry Samueli College of Health Sciences and UC Irvine Health, University of California, Irvine, 2020–present

- Chair, Campuswide Honors Collegium Board, Academic Senate, University of California, Irvine, 2020–2021

- Co-Chair, Health Informatics Platform Strategic Planning Committee, Office of Research and UC Irvine Health Affairs, University of California, Irvine, 2019

- Member, Steering Committee, Clinical Informatics Fellowship Program, School of Medicine, University of California, Irvine, 2018–present

- Member, Faculty Advisory Committee, Certificate Program in Healthcare Analytics, Division of Continuing Education, University of California, Irvine, 2018–present
- Member, Campuswide Honors Collegium Board, Academic Senate, University of California, Irvine, 2018–2020
- Member, Steering Committee, Institute for Clinical and Translational Science (ICTS), University of California, Irvine, 2016–present
- Member, Faculty Search Committee, Sue & Bill Gross School of Nursing, University of California, Irvine, 2016–2019
- Member, Executive Committee, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2016–2017
- Member, UC Irvine Health Research Strategic Plan Development Committee, Susan & Henry Samueli College of Health Sciences and UC Irvine Health, University of California, Irvine, 2016
- Member, Big Data Task Force, School of Public Health, University of Michigan, 2015
- Member, Curriculum Committee, Master of Science in Clinical Research Program, Michigan Institute for Clinical and Health Research (MICHR) & Department of Epidemiology, School of Public Health, University of Michigan, 2015
- Member, Committee of Healthcare IT Innovation Ideation Session, Fast Forward Medical Innovation, Office of Research & Office of Technology Transfer, University of Michigan Medical School, 2014–2015
- Member, Research Council, School of Public Health, University of Michigan, MI, 2013–2015
- Faculty Advisor, HEZUO – Michigan's Public Health China Interest Collaboration Constitution, 2013–2015
- Member, Launch Planning Committee, Institute for Healthcare Policy and Innovation (IHPI), University of Michigan, 2012
- Member, Executive Committee, Michigan Medicine–Peking University Health Science Center Joint Institute for Translational and Clinical Research (Michigan Medicine–PKUHSC JI), 2011–present
- Faculty Committee, Health Informatics Program, Schools of Information and Public Health, University of Michigan, 2011, 2013–2015
- Member, Faculty Search Committee, Department of Computational Medicine and Bioinformatics, University of Michigan Medical School, 2011–2012
- Faculty Advisor, Health Informatics Society (HISo), University of Michigan, 2011–2012
- Member, Curriculum Committee, Joint Masters Degree and Graduate Certificate Programs in Health Informatics, Schools of Information and Public Health, University of Michigan, 2011
- Member, Planning Committee, Joint Masters Degree and Graduate Certificate Programs in Health Informatics, Schools of Information and Public Health, University of Michigan, 2009–2012
- Research Coordinator, Nursing Informatics Advisory Committee, University of Michigan Health System, 2008–2011
- Member, Advisory Board, Information and Communication Services, School of Public Health, University of Michigan, 2008–2009
- Member, Inpatient Nursing/Respiratory Therapy Documentation Project Planning Committee, University of Michigan Health System, 2008–2009

Mentoring

Current

- Yuyang Deng (Computer Science), Venkat Kandhipati (Computer Science and Engineering), Yaseen Khan (Computer Science), James Kwan (Computer Science), Emily Truong (Data Science and Dance), Zhuojian Wei (Data Science), Kexin Zhang (Data Science), Kevin Zhang (Data Science), Undergraduate Research Internship Supervisor, Office of Research Information, University of California, Irvine, 2022–2023

- Ramya Mangu (Computer Science), Individual Study Mentor, University of California, Irvine, Fall 2022

- Katie Genuario, **PhD Advisor**, Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2021–present

- Yawen Guo, **PhD Advisor**, Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2021–present

- Brian Tran, **PhD Advisor**, Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2019–present

- Lu He, **PhD Advisor**, Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2018–present

Past: PhD Students, Postdoctoral Fellows, Visiting Scholars, and Research Master's

- Sharmaine Poblete, Master's Thesis Committee (member), Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2021–2022

- Colby Reyes, **Master's Thesis Advisor**, Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2020–2021

- Tera Reynolds, **PhD Advisor**, Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2016–2021 (School of Information, University of Michigan, 2014–2016) (now Assistant Professor, Department of Information Systems, College of Engineering and Information Technology, University of Maryland, Baltimore County)

- Mustafa Hussain, **PhD Advisor**, Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2016–2021

- Rui Cao, Doctoral Qualification Committee (member), Department of Computer Science, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2021

- Mayara Figueiredo, Doctoral Dissertation Committee (member), Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2019–2021

- Joanne Ly, Doctoral Dissertation Committee (member), Department of Biomedical Engineering, Henry Samueli School of Engineering, University of California, Irvine, 2021

- Keaton Cooley-Rieders (School of Medicine), Medical Student Scholar Mentor, University of California, Irvine, 2016–2020

- Clara Caldeira, Doctoral Dissertation Committee (member), Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2017–2020

- Elizabeth Ankrah, **PhD Advisor**, Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2019–2020

- Eugenia Rho, Doctoral Dissertation Committee (member), Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2019–2020

- Yao Du, Doctoral Dissertation Proposal Committee (member), Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2019

- Liangjian Chen, Doctoral Advancement Committee (member), Department of Computer Science, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2019

- Mayara Figueiredo, Doctoral Advancement Committee (member), Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2019

- Fatema Akbar, Doctoral Advancement Committee (member), Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2019

- Yao Li, Doctoral Dissertation Committee (member), Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2018–2019

- Mayara Figueiredo, Doctoral Comprehensive Examination Committee (member), Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2018

- Fatema Akbar, Doctoral Comprehensive Examination Committee (member), Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2018

- Elizabeth Eikey, **Postdoctoral Mentor**, Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2017–2019 (to start as Assistant Professor, Department of Family Medicine and Public Health, University of California, San Diego)

- Xinning Gui, Doctoral Dissertation Committee (member), Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2017–2019

- Yue Wang, Doctoral Dissertation Committee (member), Department of Electrical Engineering and Computer Science, Michigan Engineering, University of Michigan, 2017–2018

- Fatema Akbar, Individual Study Mentor, Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, Fall 2017 & Winter 2018

- Clara Caldeira, Doctoral Advancement Committee (member), Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2017

- Mohammad Eletriby, **PhD Co-Advisor**, Department of Computer Science, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2016–2018

- Silis Jiang, Doctoral Dissertation Committee (member), Department of Biomedical Informatics, Columbia University Irving Medical Center, 2016–2017

- Xiaoyong Liu (Guangdong Polytechnic Normal University, China), Visiting Scholar Mentor, Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, 2016–2017

- Kelly EunJung Yoon, Doctoral Prelim Committee (member), Paul Merage School of Business, University of California, Irvine, 2016

- Peng Yang (The Fourth Military Medical University, China), Visiting Scholar Mentor, Department of Health Management and Policy, School of Public Health, University of Michigan, 2015–2016

- Jia Liu, Doctoral Dissertation Committee (member), Division of Nursing Business and Health Systems, School of Nursing, University of Michigan, 2014–2018

- Genna Cohen, Doctoral Dissertation Committee (member), Department of Health Management and Policy, School of Public Health, University of Michigan, 2014–2016

- Andrea Barbarin, Doctoral Prelim Committee (member), School of Information, University of Michigan, 2014

- VGVinod Vydiswaran, **Postdoctoral Co-Mentor**, School of Information, University of Michigan, 2013–2015 (now Associate Professor, Department of Learning Health Sciences, University of Michigan Medical School)

- Joseph Donohoe, Doctoral Dissertation Committee (member), Department of Computational Medicine and Bioinformatics, University of Michigan Medical School, 2013–2015

- Charles Senteio, Doctoral Dissertation Committee (member), School of Information, University of Michigan, 2013–2015

- Jianbo Lei, Doctoral Dissertation Committee (member), School of Biomedical Informatics, University of Texas Health Science Center at Houston, 2013–2014

- Elizabeth Kaziunas, Doctoral Prelim Committee (member), School of Information, University of Michigan, 2013

- Charles Senteio, Doctoral Prelim Committee (member), School of Information, University of Michigan, 2013

- Ayse Buyuktur, Doctoral Dissertation Committee (member), School of Information, University of Michigan, 2012–2015

- Bingyang Li, Doctoral Dissertation Committee (member), Department of Managerial Economics and Decision Sciences, Kellogg School of Management, Northwestern University, 2012–2014

- Jia Liu, Doctoral Prelim Committee (member), Division of Nursing Business and Health Systems, School of Nursing, University of Michigan, 2012–2014

- Ching-Ping Lin, Postdoctoral Co-Mentor, Fogarty Global Health Fellowship Program, Fogarty International Center, National Institutes of Health, 2012–2014

- Ronald Piscotty, Doctoral Dissertation Committee (member), Division of Nursing Business and Health Systems, School of Nursing, University of Michigan, 2012–2013

- Joseph Donohoe, Doctoral Prelim Committee (member), Department of Computational Medicine and Bioinformatics, University of Michigan Medical School, 2012

- Danny Wu, **PhD Advisor**, School of Information, University of Michigan, 2011–2016 (now Associate Professor, Department of Biomedical Informatics, University of Cincinnati College of Medicine and Cincinnati Children's Hospital Medical Center)

- Liu Yang, **PhD Advisor**, School of Information, University of Michigan, 2011–2015 (now Machine Learning Scientist at Amazon)

- Julie Hinkle, Doctoral Dissertation Committee (member), Division of Nursing Business and Health Systems, School of Nursing, University of Michigan, 2010–2013

- Eric Lammers, Doctoral Dissertation Committee (member), Department of Health Management and Policy, School of Public Health, University of Michigan, 2010–2012

- Sirarat Sarntivijai, Doctoral Dissertation Committee (member), Department of Computational Medicine and Bioinformatics, University of Michigan Medical School, 2010–2012

- Jina Huh, Doctoral Dissertation Committee (member), School of Information, University of Michigan, 2010–2011

- Ronald Piscotty, Doctoral Prelim Committee (member), Division of Nursing Business and Health Systems, School of Nursing, University of Michigan, 2009–2012

- Brian Hilligoss, Doctoral Dissertation Committee (member), School of Information, University of Michigan, 2009–2011

- Kevin Nam, Doctoral Dissertation Committee (member), School of Information, University of Michigan, 2009–2010

- Yi-Chin Lin, Predoctoral Advisory Committee (member), H. John Heinz III College, Carnegie Mellon University, 2008–2010

- Julie Hinkle, Doctoral Prelim Committee (member), Division of Nursing Business and Health Systems, School of Nursing, University of Michigan, 2008–2010

- Hyojeong Kim, Postdoctoral Co-Mentor, Division of Nursing Business and Health Systems, School of Nursing, University of Michigan, 2008–2010

- Archer L. Batcheller, Doctoral Prelim Committee (member), School of Information, University of Michigan, 2008

- Yongsheng Huang, Doctoral Prelim Committee (member), Department of Computational Medicine and Bioinformatics, University of Michigan Medical School, 2008

- Rupa Patel, **Master's Thesis Committee (co-chair)**, School of Information, University of Michigan, 2007–2008

- Xiaomu Zhou, Doctoral Dissertation Committee (member), School of Information, University of Michigan, 2006–2010

- Andrew McLetchie, **Master's Thesis Committee (co-chair)**, School of Information, University of Michigan, 2006

Past: Other

- Luya Li (Informatics), Tianqi Wang (Public Health Sciences), Veronica Wang (Informatics), Mary Zhuang, (Human Biology), Individual Study Mentor, University of California, Irvine, Summer 2022

- Kabeer Bahl (Data Science), Lynn Gao (Data Science), Qian He (Data Science and Economics), Mohammad Kanawati (Data Science and Business Administration), Shreya Kini (Data Science), Alec Santiago (Data Science), Ashmita Sawhney (Data Science), Mason Sawtell (Data Science), Emily Truong (Data Science and Dance), Liya Yang (Data Science), Kevin Zhang (Data Science), Alvin Zou (Data Science and Applied and Computational Mathematics), Undergraduate Research Internship Supervisor, Office of Research Information, University of California, Irvine, 2021–2022

- Thyana Nguyen (Public Health Sciences), Stephanie Pham (Public Health Sciences), Individual Study Mentor, University of California, Irvine, Fall 2021

- Meghna Kaligotla (Informatics), Thyana Nguyen (Public Health Sciences), Stephanie Pham (Public Health Sciences), Individual Study Mentor, University of California, Irvine, Spring 2021

- Meghna Kaligotla (Informatics), Thyana Nguyen (Public Health Sciences), Stephanie Pham (Public Health Sciences), Jiawen Zhang (Data Science and Mathematics), Individual Study Mentor, University of California, Irvine, Winter 2021

- Meghna Kaligotla (Informatics), Individual Study Mentor, University of California, Irvine, Fall 2020

- Xinchen Zhang (Informatics), Individual Study Mentor, University of California, Irvine, Summer 2020

- Ya Cheng (Computer Science), Felicia Hou (Informatics), Yongxu Xian (Computer Science), Tianyang Zhou (Computer Science), Individual Study Mentor, University of California, Irvine, Spring 2020

- Alexander Cardaras (Computer Science), Soros Chokanarotewong (Informatics), Felicia Hou (Informatics), Individual Study Mentor, University of California, Irvine, Winter 2020

- Alexander Cardaras (Computer Science), Haotian Hu (Computer Science), Ye Yuan (Computer Science), Individual Study Mentor, University of California, Irvine, Fall 2019

- Tingjue Yin (Statistics), Undergraduate Research Internship Mentor, University of California, Irvine, Summer & Fall 2019

- YiJi Bae (Kyung Hee University, South Korea), Joohee Kwon (Kyung Hee University, South Korea), Suin Lee (Kyung Hee University, South Korea), I-SURF Summer Internship Preceptor, University of California, Irvine, Summer & Fall 2019

- Aiden Desai (Valencia High School), Changyang He (Fudan University, China), Ruining Tang (Beijing University of Posts and Telecommunications, China), Qirui Zhou (Computer Science, UC Irvine), Summer Research Internship Preceptor, University of California, Irvine, Summer 2019

- Alexander Cardaras (Computer Science), Daniel Davies (Computer Science), Yinhao He (Informatics & Computer Science), Yucheng Hu (Informatics & Computer Science), Jatin Sethi (Computer Science), Jiaqi Xiao (Informatics & Computer Science), Ye Yuan (Computer Science), Individual Study Mentor, University of California, Irvine, Spring 2019

- Daniel Davies (Computer Science), Yinhao He (Informatics & Computer Science), Yucheng Hu (Informatics & Computer Science), Jiaqi Xiao (Informatics & Computer Science), Chenxi Yang (Electrical Engineering and Computer Science), Xinxin Zheng (MS, Informatics & Computer Science), Individual Study Mentor, University of California, Irvine, Winter 2019

- Alec Diaz (Informatics), Yucheng Hu (Informatics & Computer Science), Jiaqi Xiao (Informatics & Computer Science), Chenxi Yang (Electrical Engineering and Computer Science), Xinxin Zheng (MS, Informatics & Computer Science), Individual Study Mentor, University of California, Irvine, Fall 2018

- Chaoyuan Luo (Tsinghua University, China), Summer Internship Preceptor, University of California, Irvine, Summer 2018

- Kavi Mathur (Informatics), Suraj Patil (Computer Science), Individual Study Mentor, University of California, Irvine, Fall 2017

- Jamie Kunzelman (Harvey Mudd College), Summer Research Internship Preceptor, University of California, Irvine, Summer 2017

- Diane Monchusap (Informatics), Suraj Patil (Computer Science), Magdalena Popov (Electrical Engineering and Computer Science), Emile Shehada (Political Science & Philosophy), Individual Study Mentor, University of California, Irvine, Spring 2017

- Kareem Ghazala (Computer Science), Suraj Patil (Computer Science), Shaurya Rathore (Computer Science), Nefertiti Rogers (Informatics), Individual Study Mentor, University of California, Irvine, Winter 2017

- Tiancheng Lin (Beijing University of Posts and Telecommunications, China), Summer Research Internship Preceptor, University of California, Irvine, Summer 2016

- Justin Park (Cornell University), Summer Internship Preceptor, University of California, Irvine, Summer 2016

- Shivani Patel (Informatics), Individual Study Mentor, University of California, Irvine, Spring 2016

- Melissa Wu (Health Informatics Program, Schools of Information and Public Health), Independent Study Mentor, University of Michigan, Fall 2015

- Nida Ali (College of Literature, Science, and the Arts), Undergraduate Directed Study Mentor, University of Michigan, Winter 2015

- Jenny Vanderlist (Health Informatics Program, Schools of Information and Public Health), Anna Vantsevich (Health Informatics Program, Schools of Information and Public Health), Independent Study Mentor, University of Michigan, Winter 2015

- Tricia O'Brien (College of Literature, Science, and the Arts), Esha Sondhi (Department of Industrial and Operational Engineering, Michigan Engineering), Undergraduate Research Mentor, Undergraduate Research Opportunity Program (UROP), University of Michigan, Fall 2014 & Winter 2015

- Zhaoxian Hu (Health Informatics Program, Schools of Information and Public Health), Nick Reid (Health Informatics Program, Schools of Information and Public Health), Gerald Shaeffer

(Health Informatics Program, Schools of Information and Public Health), Independent Study Mentor, University of Michigan, Fall 2014

- Chris Liu (Health Informatics Program, Schools of Information and Public Health), Anh Truong (Health Informatics Program, Schools of Information and Public Health), Independent Study Mentor, University of Michigan, Winter 2014

- Rattima Sirihorachai (School of Nursing), Independent Study Mentor, University of Michigan, Fall 2013

- Ye Zhang (Capital Medical University, China), Yamei Ou (Tsinghua University, China), Summer Research Internship Co-Preceptor, University of Michigan, Summer 2013

- Jacob Makowski, Practicum Preceptor, School of Nursing, Duke University, Fall 2012

- Jason Harris (Stephen M. Ross School of Business), Independent Study Mentor, University of Michigan, Fall 2012

- Tim Wang (Health Informatics Program, Schools of Information and Public Health), Independent Study Mentor, University of Michigan, Fall 2012

- David Fang (University of Michigan Medical School), Medical Student Research Rotation Preceptor, University of Michigan, Summer 2012

- Yuhao Zhang (Tsinghua University, China), Summer Research Internship Preceptor, University of Michigan, Summer 2012

- Wenke Wang (School of Information), Internship Preceptor, University of Michigan, Summer 2012

- Shuo Yang (School of Information), Practicum Preceptor, University of Michigan, 2012–2013

- Eunkyoung (Kimberly) Song (School of Information & Department of Health Management and Policy, School of Public Health), Independent Study Mentor, University of Michigan, Winter 2011

- Lauren Wendel (School of Information & Department of Health Behavior and Health Education, School of Public Health), Independent Study Mentor, University of Michigan, Fall 2009 & Winter 2011

- Kevin Bohnsack, Capstone Project Mentor, Department of Health Management and Policy, School of Public Health, University of Michigan, Winter 2008

- George Wang (Stephen M. Ross School of Business), Shen Yang (Stephen M. Ross School of Business), Independent Study Mentor, University of Michigan, Summer 2007

Teaching (<u>w</u>inter, <u>sp</u>ring, <u>f</u>all, <u>su</u>mmer)

Instructor

Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, Irvine, CA, 2016–present

- IN4MATX 171/PUBHLTH 105: Introduction to Health Informatics, f20, f21
- IN4MATX 172/PUBHLTH 106: Project in Health Informatics, w17, s18, w19, w20, w21, su22
- IN4MATX 295: Current Trends in Health Informatics, sp16, w17, s19
- IN4MATX 174: Health Data Analytics, s23

Institute for Clinical and Translational Science (ICTS), University of California, Irvine, Irvine, CA, 2019–present

- "*Translational Informatics*," Focused Flexible Accelerated Studies (FFASt) Workshop, w19

California State Summer School for Mathematics & Science (COSMOS), 2017–present

- "*Introduction to Medical/Health Informatics*," su17, su18, su19

Department of Health Management and Policy, School of Public Health, University of Michigan, Ann Arbor, MI, 2006–2015

- PUBHLTH 573/SI 573: Health Informatics Seminar I, f14, f15
- PUBHLTH 574/SI 574: Health Informatics Seminar II, w14, w15
- HMP 668/SI 542: Introduction to Health Informatics, w07, w08, w09, w10, w11, w12
- HMP 668: Introduction to Health Informatics (executive program), su14
- BIOINF 555/HMP 696/SI 642/SI 742: Concepts in Heath Informatics, f07, f09, f10, f11
- HMP 669: Database Systems and Internet Applications in Health Care, w07, w08, w09, w10, f13
- HMP 648/SI 525: Empirical Methods for Health Informatics, w14
- HMP 601: Healthcare Quality, Performance Measurement and Improvement, w14 (with Kyle Grazier and Brant Fries)
- HMP 605: Health Information Technology, w11, w12
- HMP 605: Health Information Technology (executive program), su11

Course Coordinator

- ChE 596/BME 596/Pharm 596 Health Engineering: Innovation for Quality, Affordability and Efficiency (3 credit hours), College of Engineering Department of Chemical Engineering, University of Michigan, w10

Guest Lecturer

- NS 211 Nursing Seminar, "*Computational Ethnography and Clinical Workflow Analysis*," Sue & Bill Gross School of Nursing, University of California, Irvine, f22
- MED 264 Principles of Biomedical Informatics, "*Human Factors: Workflow Optimization and Human-Computer Interaction*," Division of Biomedical Informatics, School of Medicine, University of California, San Diego, f22
- IN4MATX 171/PUBHLTH 105 Introduction to Health Informatics, "*Health Data Analytics*," Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, f22
- MED 264 Principles of Biomedical Informatics, "*Human Factors: Workflow Optimization and Human-Computer Interaction*," Division of Biomedical Informatics, School of Medicine, University of California, San Diego, f21
- MED 262 Current Trends in Biomedical Informatics, "*The Potential (or the Lack Thereof) of Voice-based Ambient Clinical Documentation Technologies*," Division of Biomedical Informatics, School of Medicine, University of California, San Diego, f20
- MED 264 Principles of Biomedical Informatics, "*Computational Ethnography: A New Method for Conducting Human–Computer Interaction Research*," Division of Biomedical Informatics, School of Medicine, University of California, San Diego, f20
- MED 264 Principles of Biomedical Informatics, "*Studying Health IT Usability*," Division of Biomedical Informatics, School of Medicine, University of California, San Diego, f19
- MED 264 Principles of Biomedical Informatics, "*Human Factors: Workflow Optimization and Human-Computer Interaction*," Division of Biomedical Informatics, School of Medicine, University of California, San Diego, f18

- PUBHLTH 293 Foundations of Clinical and Translational Science, "*Translational Research Informatics*," Program in Public Health, University of California, Irvine, f18, f19

- IN4MATX 171/PUBHLTH 105 Introduction to Medical Informatics, "*Quantifying the Impact of Health IT on Clinical Workflow*," Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine, w18

- MED 264 Principles of Biomedical Informatics, "*Latest Research on Health Information Technology's Unintended Consequences*," Division of Biomedical Informatics, School of Medicine, University of California, San Diego, f17

- MED 262 Current Trends in Biomedical Informatics, "*Electronic Health Records Adoption and the Implications for Health Services Research*," Division of Biomedical Informatics, School of Medicine, University of California, San Diego, w17

- HMP 669 Database Management and Internet Applications in Health Care, "*Medical Vocabularies and Biomedical Ontologies*," Department of Health Management and Policy, School of Public Health, University of Michigan, f14

- Summer Health Management Program, "*Use of EHRs for Performance Monitoring and Quality Improvements: Data Quality, Data Interoperability, and eMeasures*," University of Michigan–National Sun Yat-sen University Health Management Institute, su14

- Hospital CIO Training Program, "*Use of EHRs for Performance Monitoring and Quality Improvements: Data Quality, Data Interoperability, and eMeasures*," Peking University, Beijing, China, su14

- PUBHLTH 573/574 Health Informatics Seminar, "*Workflow Engineering in Health Informatics*," University of Michigan Health Informatics Program, f13

- Health Care: Economics and Industry, "*Accelerating Health IT Adoption in the U.S.: Opportunities and Challenges*," China Europe International Business School, Shanghai, China, f12

- 3630 Business Information Systems, "*Clinical Reminder System and User Interface Optimization*," Wayne State University, Detroit, MI, w07

- 3630 Business Information Systems, "*A Clinical Reminder System for Evidence-based Medicine Practice*," Wayne State University, Detroit, MI, w06

- 95-703 Database Management, "*Advanced SQL Scripts and XML Queries*," Carnegie Mellon University, Pittsburgh, PA, f03, f04

- 95-729 Ecommerce Technologies, "*Client-Side Programming Techniques*," Carnegie Mellon University, Pittsburgh, PA, f02, f03

- INFSCI 1024 System Analysis and Design, "*User Interface and Design Patterns*," University of Pittsburgh, Pittsburgh, PA, f04

Teaching Assistant, Carnegie Mellon University, Pittsburgh, PA, 2000–2006

95-704 Advanced Database Management, f00, f01, w02, w03, w05
95-791 Data Mining, w02
95-797 Data Warehousing, f03
95-703 Database Management, f03, f04
95-703 Database Management Distance Learning for GM Managers, f05
95-709 Decision Support Systems, f03, w06
95-722 Digital Transformation, w06
95-730 Electronic Commerce, w04, w05
95-730 Electronic Commerce Distance Learning for GM Managers, w04, f04, f05
95-729 Ecommerce Technologies, f02, f03
95-853 Healthcare Information Systems, w02, w03, w04, w05
95-733 Internet Technologies, w03

90-815 IT for Public Policy and Management: Decision Support Systems, w04
95-875 Java I & II, su00
95-706 Object Oriented Software Analysis and Design, su04
95-712 Object Oriented Programming in Java, su04, su05
95-701 Organizational Communication and Distributed Object Technology, su01

Teaching Assistant, China Europe International Business School, Shanghai, China, 1998–1999

506 Management Information Systems, w98, w99

Professional Membership

Current

American College of Medical Informatics (ACMI)
American Medical Informatics Association (AMIA)
Association for Computing Machinery (ACM)
China Health Policy and Management Society (CHPAMS, founding member)

Past

AcademyHealth
Association for Information Systems (AIS)
European Alliance for Innovation (EAI)
Healthcare Information and Management Systems Society (HIMSS)
Institute for Operation Research and the Management Sciences (INFORMS)