**UNIVERSITY OF MISSOURI**

**Sinclair School of Nursing**

**MU Institute for Data Science and Informatics**

**CURRICULUM VITAE**

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**Citizenship**: Canadian and American (Dual)

##### EDUCATIONAL BACKGROUND

**ACADEMIC AND PROFESSIONAL TRAINING**

|  |  |  |  |
| --- | --- | --- | --- |
| 2011-2013 | Postdoctoral Fellowship | University of Washington  School of Nursing  Seattle, WA | Aging and Technology  (NIH NINR Fellow) |
| 2007-2010 | Ph.D. | University of Washington  School of Medicine  Seattle, WA | Biomedical & Health Informatics (NIH NLM Fellow) |
| 1996-1998 | CIS Certification | North Seattle Community College  Seattle, WA | Programming |
| 1992-1994 | B.A. | University of Washington  Seattle, WA | Sociology with Distinction |
| 1991-1992 | A.A. | North Seattle Community College  Seattle, WA | Undergraduate requirements |
| 1987-1989 |  | Western Washington University  Bellingham, WA | Undergraduate coursework |

**DISSERTATION**

Reeder, Blaine. (2010). *Characterizing Information Needs for Public Health Continuity of Operations: A Scenario-Based Design Approach*: University of Washington.

##### EMPLOYMENT HISTORY

|  |  |  |
| --- | --- | --- |
| **Year** | **Institution** | **Position** |
| 2019-present | School of Nursing,  MU Informatics and Data Science Institute  University of Missouri  Columbia, MO | Associate Professor (tenured) |
| 2013-2019 | College of Nursing,  University of Colorado  Aurora, CO | Assistant Professor |
| 2011-2013 | School of Nursing  University of Washington  Seattle, WA | NINR Postdoctoral Researcher (T32) |
| 2010-2011 | School of Nursing  University of Washington  Seattle, WA | Research Scientist |
| 2010 | School of Nursing  University of Washington  Seattle, WA | Graduate Research Assistant |
| 2007-2010 | School of Medicine  University of Washington  Seattle, WA | NLM Predoctoral Fellow (T15) |
| 2006-2007 | School of Public Health  University of Washington  Seattle, WA | Program Information Specialist |
| 2004-2005 | PlayStream, LLC  Seattle, WA | Software Engineer |
| 2002-2004 | PlayStream, LLC  Seattle, WA | Technical Director |
| 2001 | SeeItFirst, Inc.  Fremont, CA | Senior Project Manager |
| 1998-2001 | Overdrive Media, Inc.  Seattle, WA & San Francisco, CA | Principal and Project Manager |
| 1999 | Microsoft Corporation  Redmond, WA | Streaming Media Software Tester |
| 1998 | Peopleware, Inc.  Bellevue, WA | Information Technology Manager |
| 1996-1998 | American Seafoods Company  Seattle, WA | Database Specialist |
| 1994-1996 | SpecTec, Inc.  Issaquah, WA | Database Project Manager |
| 1994 | Political Science Department  University of Washington  Seattle, WA | Research Assistant |

**HONORS, FELLOWSHIPS, AND AWARDS**

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| --- | --- |
| 2015 | AMIA 2015 Distinguished Poster Award: Connelly, Kay, **Reeder, Blaine**, Hall, Amanda K., Caine, Kelly, Siek, Katie, & Demiris, George. (November 14-18, 2015). *HomeSHARE: A Distributed Smart Homes Testbed Initiative.* Presentation at the AMIA Annual Symposium 2015, San Francisco. |
| 2014 | AMIA 2014 Year in Review featured article: Turner, Anne M., **Reeder, Blaine**, & Ramey, Judith. (2013). Scenarios, personas and user stories: User-centered evidence-based design representations of communicable disease investigations. *Journal of Biomedical Informatics, 46*(4), 575-584. PMID: 23618996, PMCID: PMC4077047 |
| 2014 | AMIA 2014 Year in Review featured article: Huh, Jina, Le, Thai, **Reeder, Blaine**, Thompson, Hilaire J., & Demiris, George. (2013). Perspectives on Wellness Self-Monitoring Tools for Older Adults. *International Journal of Medical Informatics, 82*(11), 1092-1103. PMID: 24041452, PMCID: PMC3874863 |
| 2011-2013 | Postdoctoral Fellowship, Biobehavioral Nursing Research, National Institute of Nursing Research T32, University of Washington |
| 2007-2010 | Predoctoral Fellowship, Biomedical and Health Informatics, National Library of Medicine, T15, University of Washington |
| 1998 | President’s List for Academic Achievement, North Seattle Community College |
| 1994 | Sociology Honors Program, Baccalaureate Degree with Distinction, University of Washington |
| 1994 | Phi Beta Kappa National Honor Society, University of Washington |
| 1994 | Golden Key Honor Society, University of Washington |

**RESEARCH ACTIVITIES**

**FUNDED RESEARCH PROJECTS**

**External Funding**

|  |  |
| --- | --- |
| 9/1/2021-8/31/2022 | Role: Co-PI, *Age-Friendly Sustainable and Equitable Technologies* (*ASSETs) for Aging in Place*,Missouri Department of Social Services and Centers for Medicare and Medicaid Services, this three-year project will develop sensor-based care coordination services for self-management for older adults at risk of loss of independence in Missouri. Status: **Ongoing**. ($2,320,998) |
| 9/1/2021-8/31/2022 | Role: Co-I, *Reducing COVID-19 Related Disability in Rural Community-Dwelling Older Adults Using Smart Technology*, NIH/NIA R01, PI: Proffitt. This 3-year interdisciplinary study will translate tested sensor technology from an aging-in-place facility to single resident homes for community-dwelling rural older adults. Sensor data integrated with other health information will be used to support tailored care coordination for an interdisciplinary team consisting of occupational therapists, social workers, and nurses. Status: **Ongoing**. ($2,702,288) |
| 08/01/16-12/31/19 | Role: PI (Co-PI for larger collaborative grant), *CI-New: Collaborative Research: HomeSHARE - Home-based Smart Health Applications across Research Environments* (Award #: 1629202), National Science Foundation (NSF) Directorate Computer & Information Science & Engineering (CISE), This 3-year multi-institute project award provides funding to develop HomeSHARE, a distributed infrastructure for aging in place research that provides research communities with access to a network of smart homes with standard sensor packages and the ability to add custom technology as needed for specific studies. Status: Completed. ($337,652) |
| 9/26/16-9/25/18 | Role: User-Centered Design Consultant and Design Task Leader,(AHRQ Contract #: HHSP233201500025I), *Identifying, Assessing and Balancing Competing Risks of Multiple Hospital Acquired Conditions (HACs),* Agency for Healthcare Research and Quality, PI: Heidi Wald, CU SOM. This award to the Colorado ACTION Partnership will develop competing risk models for Hospital-Acquired Pressure Ulcers (HAPUs), Cather-Associated Urinary Tract Infection (CAUTI), and Falls based on individual patient characteristics. Dr. Reeder will lead efforts for user-centered design of dashboards that visually display these models to improve clinical decision-making for patient risk assessment. Status: Completed. ($674,416) |
| 9/20/16-9/19/17 | Role: HCI Consultant and Design Task Leader,(CDC Contract #: 200-2016-92277), *UTIDecide: Improving Antibiotic Stewardship in Long Term Care through the UTIDecide Electronic Clinical Decision Support*, Centers for Disease Control and Prevention, PI: Heidi Wald, CU SOM. This project will extend the functionality of the UTIDecide mobile clinical decision support high-fidelity prototype and introduce it into nursing homes to address errors in UTI diagnosis and improve team communication. Status: Completed. ($249,708) |
| 7/1/16-6/31/17 | Role: Co-I, (No Identifier), *UTIDecide: Electronic Clinical Decision Support to Improve Diagnoses of and Prescribing for Urinary Tract Infections in Nursing Homes and Acute Care Hospitals*, COPIC Medical Foundation, PI: Heidi Wald, CU SOM. This study will develop a pilot mobile clinical decision support application for nursing home staff as they perform patient assessments and provide a TeamSTEPPS “SBAR” communication script they can use to structure communication with providers and the patient family members. Status: Completed. ($25,000) |
| 9/29/15-12/31/16 | Role: PI for subcontract with Electronic Data Management (EDM) Forum Collaborative Project, *Analyzing Pain in Electronic Health Data to Improve Patient Care Quality*, EDM Forum PI: Erin Holve. AcademyHealth’s EDM Forum was created through a cooperative agreement from the Agency for Healthcare Research and Quality (AHRQ) grant #U13 HS19564. Ongoing support for the EDM Forum comes from AHRQ grant #U18 HS022789. The goal of this project is to develop generalizable guidance for a federated data system designed to enable comparison of nurse-sensitive patient outcomes across healthcare systems through analysis of electronic health record data. Status: Completed. ($99,851) |
| 9/1/14-8/31/15 | Role: PI (Co-PI of larger collaborative planning grant), *CI-P: HomeSHARE: Home-based Smart Health Applications across Research Environments*, (Award #1405951), National Science Foundation. This award supports planning for the HomeSHARE test bed, intended to be a geographically-distributed, in-situ test bed to design, develop, and evaluate pervasive home-based technologies for aging in place. This project is advance funding to engage computer scientists and gerontologists in preparation for a 3-year, $1,000,000 NSF proposal to build a distributed smart homes research platform involving Indiana University, Clemson University, University of Washington and University of Colorado. Status: Completed. ($9,657) |

**Internal Funding**

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| 5/1/2021-5/31/2022 | Role: co-I, Developing and Testing Social Support Targeted Messages to Enhance Medication Adherence, Richard Wallace Faculty Incentive Grants, PI: LeeAnne B. Sherwin, Status: Funded. ($3,997) 4/30/2021-3/31-2022 |
| 9/2019-8/2023 | Role: PI, *Precision Smart Technologies and Applications for Rapid Translation Laboratory (Precision Start Lab),* The goal of the Precision START lab is to establish systematic evaluation methods for emerging smart technologies (mobile, wearable and in-home sensors) and digital health applications through applied demonstration projects. Evaluated technologies and applications will be positioned for implementation in larger studies. ($75,000) |
| 4/2014-4/2016 | Role: Co-I, *Nurses’ Perceptions of Symptom Documentation Using Electronic Health Records*, Co-Is: Mustafa Ozkaynak, Karen Sousa, CON Intramural Funding through Office of Research and Scholarship. This award supports interviews with acute care nurses to determine nurses’ perceptions of symptom assessment and documentation using electronic health records. This is an early stage effort to build a real-time nursing-sensitive patient outcomes EHR analytics platform. Status: Completed. ($2,000) |

**Pending/Unfunded Research – Intramural and Extramural**

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| 1/2022 | Role: Site PI, *PCOG-90: PCORnet Study of Older Persons with Superior Cognitive*, The goal of the 5-year PCOG cognitive aging study is to validate a digital phenotype of superior cognitive aging generated from electronic health record data. Led by Tulane University, twenty universities will enroll and follow a cohort of 5,000 nonagenarians identified through participating PCORNet EHR data repositories to identify factors in successful cognitive aging through collection of biomarkers and self-report data. Status: Pending. ($2,242,305) |
| 12/2021 | Role: Co-PI, *IUCRC Phase I University of Missouri: Center to Stream Healthcare In Place (C2SHIP)*, The goals of the 5-year C2SHIP project are to: (1) Conduct high-impact research in chronic disease management and care delivery with industrial companies of all sizes; (2) Enhance U.S. global leadership in healthcare innovative technology development; and (3) Identify, mentor, and develop a diverse, highly skilled biomedical science and engineering workforce. Status: Pending. ($599,999) |
| 9/2021 | Role: Participating Faculty, *Biomedical innovation and Entrepreneurship Training for Age-related Diseases (BETA),* This 5-year training grant will train BETA-program scholars to identify unmet clinical needs in age-related diseases and propose innovative translational solutions. Status: Pending. ($500,000) |
| 03/2021 | Role: PI, *Age-Friendly Sustainable and Equitable Technologies* (*ASSETs) for Access in Missouri*,Missouri Foundation for Health, this 1-year technology pilot of the openHAB platform seeks to develop translational research support for open-source smart home solutions to eliminate health disparities for older adults in Missouri. Status: Unfunded. ($111,223) |
| 03/2021 | Role: PI, *Age-Friendly Sustainable and Equitable Technologies* (*ASSETs) for Access*,NAM Catalyst, this one-year technology pilot of the openHAB platform seeks to develop translational research support for open-source smart home solutions to reach low-SES older adults. Status: Unfunded. ($50,000) |
| 02/2021 | Role: co-PI, *I-CAPABLE: Internet-supported CAPABLE for Older Adults Living in Rural Areas* NIH/NIA R01, this 5-year clinical trial in collaboration with Johns Hopkins University will compare the effectiveness of CAPABLE with telehealth and sensor-informed care coordination and CAPABLE with telehealth for disability reduction for rural older adults at 5 months and 12 months. Status: Unfunded– Impact Score: 43. ($4,520,262) 9/1/2021 - 8/31/2026 |
| 01/2021 | Role: Lead Site PI, *Collaborative Research: CCRI: ENS: HomeSHARE - Home-based Smart Health Applications across Research Environments,* National Science Foundation (NSF) Directorate Computer & Information Science & Engineering (CISE), This 2-year multi-institute proposal will scale HomeSHARE infrastructure to two additional university partner sites, increase the number of resident homes to 100, conduct comparative evaluation of two technology platforms, and develop a sustainability model to provide research communities with access to a network of smart homes with standard sensor packages and the ability to add new technologies as needed for new studies. Status: Unfunded. ($711,147 at MU, $1,999,947 overall) |
| 11/2020 | Role: Co-I, *Advancing Interprofessional Research for Inpatient Acute Pain Care*, NIH CTSA U01, Subcontract to University of Kansas Medical Center (PI: Harper). This 4-year project addresses the gaps in data infrastructure which impede the broad study of non-billable care processes and analyses of interprofessional care and outcomes Status: Pending. ($939,000) |
| 11/2020 | Role: Co-I, *Rural Family Caregiver Training and Support using the eFamilyCare App*, UC Davis Betty Irene Moore Fellowship for Nurse Leaders and Innovators, PI: Jo-Ana D. Chase, Project period: 7/2020 – 7/2023, Status: Unfunded. ($500,000) |
| 8/2020 | Role: Co-I and Industry Liaison, *IUCRC Phase I University of Missouri: Center to Stream Healthcare In Place (C2SHIP)*, National Science Foundation, This 5-year multi-institute proposal with University of Arizona, Baylor College of Medicine, University of Southern California, California Institute of Technology, will develop and test technology to improve the lives of patients with chronic illness by improving the quality and efficiency of our healthcare ecosystem. Status: Unfunded. ($650,000) |
| 8/2020 | Role: Co-I, *Reducing COVID-19 Related Disability in Rural Community-Dwelling Older Adults Using Smart Technology*, NIH/NIA R01. This 3-year interdisciplinary study will translate tested sensor technology from an aging-in-place facility to single resident homes for community-dwelling rural older adults. Sensor data integrated with other health information will be used to support tailored care coordination for an interdisciplinary team consisting of occupational therapists, social workers, and nurses. Status: Unfunded – Impact Score: 41. ($1,147,444) |
| 3/2020 | Role: PI, *I-CAPABLE Tier 3 Pilot*, University of Missouri Tier 3 intraumural, This 1-year pilot study will demonstrate sensor and telehealth support for the CAPABLE multi-disciplinary home visit program that reduces disability for older adults to support independent living. Status: Unfunded. ($74, 942) |
| 2/2019 | Role: PI, *CCRI: ENS: Collaborative Research: HomeSHARE - Home-based Smart Health Applications across Research Environments,* National Science Foundation (NSF) Directorate Computer & Information Science & Engineering (CISE), This 2.5 year multi-institute proposal will scale HomeSHARE infrastructure to two additional university partner sites, increase the number of participant homes at existing sites, and onboard a new technical partner and platform, to provide research communities with access to a network of smart homes with standard sensor packages and the ability to add new technologies as needed for specific studies. Status: Unfunded. ($424,498) |
| 10/2018 | Role: PI, *Consumer-grade smart home and digital health technologies for inclusive healthy aging* (brief proposal), Robert Wood Johnson Foundation, Status: Unfunded. ($343,647) |
| 10/2018 | Role: Co-I, *Telehealth to overcome geographic barriers and increase high quality abortion access to improve women's health equity* (brief proposal), Robert Wood Johnson Foundation, PI: Kate Coleman-Minahan, Status: Unfunded. ($315,547) |
| 3/2018 | Role: Co-I, *Change in Pain Scores (ChiPS): A New and Promising Nurse-Sensitive Patient-Outcome Metric,* NIH/NINR, PI: Karen Sousa, Status: Resubmitted and unfunded. ($2,312,925) |
| 1/2018 | Role: Co-I, *Improving Adherence with Attention to Repeated Experiences, Novel Engagement Strategies, and Sensors (AWARENESS) in People Living with HIV*, NIH/NIDA (U01 network grant), PI: Paul Cook, Status: Unfunded. ($1,700,000) |
| 11/2017 | Role: Informatics and Sensor Area Leader, *Colorado Bio-behavioral Center for Chronic Conditions (CBC3): Optimizing Behavior Change Using Two Minds Theory*, NINR Exploratory Center (P20), PI: Paula Meek, Status: Unfunded. ($1,943,745) |
| 10/2017 | Role: PI, *Extending the CUPID Precision Nursing System to Enable Nursing Knowledge Discovery*, NIH Research Project Grant (Parent R01), Status: Scored. ($1,495,011) |
| 5/2017 | Role: Co-I, *MyHealthLibrary*, Data Science Research: Personal Health Libraries for Consumers and Patients (R01), PI: Lisa Schilling, Status: Unfunded. ($1,555,000) |
| 3/2017 | Role: Co-I, *Determining the Utility of Change in Pain Score as a Population-sensitive Care Metric: Extending Functionality of the CUPID Federated Data System*, Data Science to Patient Value Program (D2V), PI: Karen Sousa, Status: Unfunded. ($73,233) |
| 3/2017 | Role: Co-I, *Adherence Support to Improve the Value of Medication in Primary Care*, Data Science to Patient Value Program (D2V), PI: Paul Cook, Status: Unfunded. ($74,957) |
| 11/2016 | Role: PI, *PFI-BIC: Scaling the CUPID Precision Nursing System to Enable Smart*  *Research Services*, National Science Foundation Partnerships for Innovation: Building Innovation Capacity - Smart Service Systems, Status: Unfunded. ($988,504) |
| 10/2016 | Role: PI, *Extending the CUPID Precision Nursing System to Eliminate Health Care Disparities*, National Institutes of Health (NIH) Extended Development, Hardening and Dissemination of Technologies in Biomedical Computing, Informatics and Big Data Science (R01), Status: Scored and not resubmitted due to FOA expiration. ($1,369,576) |
| 10/2016 | Role: Co-I, *Leveraging Patient-Oriented Workflows from Everyday Routines (POWERs) for Optimized Design and Implementation of Collaborative Health Information Technologies*, Agency for Healthcare Research and Quality R21, PI: Mustafa Ozkaynak, Status: Unfunded. ($184,181) |
| 10/2016 | Role: Co-I, *Extending Functionality of the CUPID Distributed Data System to Help Eliminate Health Care Disparities in Acute Care Facilities*, Agency for Healthcare Research and Quality R21, PI: Karen Sousa, Status: Unfunded. ($299,998) |
| 6/2016 | Role: Co-I, *Extending Development and Application of Existing Software/Technology Platforms to Enable Comparison of Nurse-sensitive Patient Outcome (NSPO) Data from Electronic Health Records,* National Institutes of Health (NIH) Parent R01, PI: Karen Sousa, Status: Unfunded. ($1,343,054) |
| 1/2016 | Role: Co-I, *A Comprehensive Infrastructure to Support Collaborative Research on Aging in Place Technologies*, National Institutes of Health (NIH) National Institute on Aging (NIA) U2C, PI: Marjorie Skubic, Status: Unfunded. ($5,351,778) |
| 10/2015 | Role: PI, *SCH: EXP: Home-based Functional Improvement using Technology (HomeFIT): Sensor-supported Telerehabilitation for Medically Deconditioned Older Adults*, National Science Foundation Smart and Connected Health (SCH) Exploratory grant, Status: Unfunded. ($666,691) |
| 10/2014 | Role: PI, *SCH: EXP: Translating Interventions and Technologies to Living Environments (TITLE): Integrated Sensor-based and Self-reported Measures to Support Independent Living*, National Science Foundation Smart and Connected Health (SCH) Exploratory grant, Status: Unfunded. ($644,125) |
| 9/2014 | Role: PI, *Developing an overhead sensor for gait speed detection and person identification*, National Institutes of Health (NIH) National Institute of Biomedical Imaging and Bioengineering R21. Status: Unfunded. ($275,000) |
| 6/2014 | Role: PI for subcontract with Electronic Data Management (EDM) Forum Collaborative Project, *Building a Nursing Research Community for Patient-Centered Use of Electronic Health Data*, EDM Forum PI: Erin Holve. AcademyHealth's EDM Forum was created through a cooperative agreement from the Agency for Healthcare Research and Quality (AHRQ) grant #U13 HS19564. Ongoing support for the EDM Forum comes from AHRQ grant #U18 HS022789. Status: Unfunded. ($95,086) |
| 2/2014 | Role: PI, *SimpleGAIT: In-home technology to measure gait speed in multi-resident homes*, National Institutes of Health (NIH) National Institute on Aging (NIA) R21. Status: Unfunded. ($275,000). |
| 11/2013 | Role: PI, *Assessing technology-based measures of physical function for older adults: A systematic review*, Doris Kemp Smith Award. Con Intramural Funding. Status: Unfunded. ($6,000). |
| 9/2013 | Role: PI, *Developing a novel sensor-based method to assess gait speed in homes with multiple occupants*, CCTSI Translational CO-Pilot Junior Faculty Award. Status: Unfunded. ($30,000) |
| 6/2009 | Role: Co-I/Project Director. *DIGIT: Document‐Aware Tools for Zero‐Effort Download of Biomedical Reference Data*. National Library of Medicine G08 Applied Informatics Grant. Status: Unfunded. ($486, 180) |

**RESEARCH DEVELOPMENT**

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| 2019-Present | Director, Precision Smart Technologies and Applications for Rapid Translation (Precision START), University of Missouri Sinclair School of Nursing. Ongoing projects include: Wearables evaluation methodology validation, MAISIE post-acute care mobile clinical decision support app development, openHAB smart homes platform research infrastructure. The START lab currently has 4 nursing PhD students, 1 informatics PhD student and 3 other SSON nursing PhD faculty as active members. |
| 2015-2019 | Founding member, Post-Acute Care Research and Team-based Science (PACRATS) group), Anschutz Medical Campus |
| 2014-2019 | Technical Director, Common Unified Patient Indicator Data (CUPID) system project, Colorado Collaborative for Nursing Research (CCNR) |
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##### SCHOLARSHIP

(Refereed: \*; Data-based: +; Invitational: #)

**PUBLICATIONS**

Refereed Journal Articles

\*,+Drake-Morrow, Cynthia, Peraillon, Marcelo Coca, Daddato, Andrea E, **Reeder, Blaine**, Wald, Heidi L, Battaglia, Catherine, & Boxer, Rebecca S. (2021). Patient Characteristics are not Associated with Documentation of Weight and Heart Failure Related Sign and Symptom Assessment in Skilled Nursing Facilities. *Journal of the American Medical Directors Association*.

\*,+,#Connelly, Kay, Molchan, Haley, Bidanta, Rashmi, Siddh, Sudhanshu, Lowens, Byron, Caine, Kelly, Demiris, George, Siek, Katie, & **Reeder, Blaine**. (2021). Evaluation Framework for Selecting Wearable Activity Monitors for Research. *mHealth*.

\*,+**Reeder, Blaine**, Makic, Mary Beth F, Drake, Cynthia, Ouellet, Judith, Sutcliffe, Britney, Rodrick, David, Gritz, Mark, & Wald, Heidi L. (2020). Design and Evaluation of Low-Fidelity Visual Display Prototypes for Multiple Hospital-Acquired Conditions. *Computers Informatics Nursing*.

\*,+Makic, Mary Beth, Gilbert, Danielle, Jankowski, Catherine, **Reeder, Blaine**, Al-Salmi, Nasser, Starr, Whitney, & Cook, Paul F. (2020). Sensor and Survey Measures Associated With Daily Fatigue in HIV: Findings From a Mixed-Method Study. *Journal of the Association of Nurses in AIDS Care*.

\*,+**Reeder, Blaine**, Chung, Jane, Lyden, Kate, Winters, Joshua, & Jankowski, Catherine M. (2020). Older Women’s Perceptions of Wearable and Smart Home Activity Sensors. *Informatics for Health and Social Care*, *45*(1), 96-109. PMID: 30919711

\*,+**Reeder, Blaine**, Drake, Cynthia, Ozkaynak, Mustafa, & Wald, Heidi L. (2019). Usability Testing a Mobile Clinical Decision Support App for UTI Diagnosis in Nursing Homes. *Journal of Gerontological Nursing, 45*(7), 11-17. PMID: 30985907

\*,+Ozkaynak, Mustafa, **Reeder, Blaine**, Drake, Cynthia, Ferrarone, Peter, Trautner, Barbara, & Wald, Heidi L. (2019). Characterizing Workflow to Inform Clinical Decision Support Systems in Nursing Homes. *The Gerontologist*, *59*(6), 1024-1033. PMID: 30124814

\*,#Cook, Paul F., Schmiege, Sarah J., **Reeder, Blaine**, Horton-Deutsch, Sara, Lowe, Nancy K, & Meek, Paula. (2018). Temporal Immediacy: A Two-Systems Theory of Mind for Understanding and Changing Health Behaviors. *Nursing Research, 67*(2), 108-121. PMID: 29489632

\*,+Sousa, Karen, **Reeder, Blaine**, Ozkaynak, Mustafa, Bondy, Jessica, & Weiss, Jason. (2017). Colorado Collaborative for Nursing Research: Providing Trending Nurse-Sensitive Patient-Outcome Data. *Journal of Nursing Administration, 47*(6), 345-349. PMID: 28538465

\*,+Ozkaynak, Mustafa, **Reeder, Blaine**, Hoffecker, Lilian, Makic, Mary Beth F, & Sousa, Karen. (2017). Use of Electronic Health Records by Nurses for Symptom Management in Inpatient Settings: A Systematic Review. *Computers Informatics Nursing, 35*(9), 465–472. PMID: 28240616

\*,+Jones, Wallace, Drake, Cynthia, Mack, David, **Reeder, Blaine**, Trautner, Barbara, & Wald, Heidi L. (2017). Developing Mobile Clinical Decision Support for Nursing Home Staff Assessment of Urinary Tract Infection using Goal-Directed Design. *Applied Clinical Informatics, 8*(2), 632-650. PMID: 28636060

\*,+**Reeder, Blaine**, & David, Alexandria. (2016). Health at Hand: A Systematic Review of Smart Watch Uses for Health and Wellness. *Journal of Biomedical Informatics, 63*(5), 269-276. PMID: 27612974

\*,+,#**Reeder, Blaine**, Chung, Jane, & Stevens-Lapsley, Jennifer. (2016). Current telerehabilitation research with older adults at home: an integrative review. *Journal of Gerontological Nursing, 42*(10). PMID: 26870988

\*,+Dziadkowiec, Oliwier, Callahan, Tiffany, Ozkaynak, Mustafa, **Reeder, Blaine**, & Welton, John M. (2016). Using a Data Quality Framework to Clean Data Extracted from the Electronic Health Record: A Case Study. *eGEMs (Generating Evidence & Methods to improve patient outcomes), 4*(11), 21. PMCID: PMC4933574

\*,+Cook, Paul F., Carrington, Jane M., Schmiege, Sarah J., Starr, Whitney, & **Reeder, Blaine**. (2015). A counselor in your pocket: feasibility of mobile health tailored messages to support HIV medication adherence. *Patient Preference and Adherence, 9*, 1353-1366. PMID: 26491263, PMCID: PMC4599065

\*,+,#**Reeder, Blaine**, & Whitehouse, Kamin. (2015). Sensor-Based Detection of Gait Speed in Older Adults: An Integrative Review. *Research in Gerontological Nursing, 8*(1), 12-27. PMID: 25420184

\*,+Sousa, Karen, Weiss, Jason, Welton, John M., **Reeder, Blaine**, & Ozkaynak, Mustafa. (2015). The Colorado Collaborative for Nursing Research: Nurses Shaping Nursing's Future. *Nursing Outlook, 63*(2), 204-210. PMID: 25771194

\*,+Le, Thai, **Reeder, Blaine**, Yoo, Daisy, Aziz, Rafae, Thompson, Hilaire J., & Demiris, George. (2015). An Evaluation of Wellness Assessment Visualizations for Older Adults *Telemedicine and e-Health, 21*(1), 9-15. PMID: 25401414, PMCID: PMC4298147

\*,+Le, Thai, **Reeder, Blaine**, Chung, Jane, Thompson, Hilaire J., & Demiris, George. (2014). Design of smart home sensor visualizations for older adults. *Technology and Health Care*. PMID: 25267608, PMCID: In Process

\*,+**Reeder, Blaine**, Chung, Jane, Le, Thai, Thompson, Hilaire J., & Demiris, George. (2014). Assessing Older Adults’ Perceptions of Sensor Data and Designing Visual Displays for Ambient Environments. An Exploratory Study. *Methods of Information in Medicine, 53*(3), 152-159. PMID: 24728081, PMCID: PMC4082667

\*,+Chung, Jane, **Reeder, Blaine**, Lazar, Amanda, Joe, Jonathan, Demiris, George, & Thompson, Hilaire J. (2014). Exploring an informed decision-making framework using in-home sensors: older adults’ perceptions. *Informatics in Primary Care, 21*(2), 73-77. PMID: 24841407, PMCID: In Process

\*,+**Reeder, Blaine**, Hills, Rebecca A., Turner, Anne M., & Demiris, George. (2014). Participatory design of an integrated information system design to support public health nurses and nurse managers. *Public Health Nursing, 31*(2), 183-192. PMID: 24117760, PMCID: PMC4061981

\*,+Lober, William B., **Reeder, Blaine**, Goldov, Kim, McReynolds, Justin, & Painter, Ian. (2014). Technical Description of the Distribute Project: A Community-based Syndromic Surveillance System Implementation. *Online Journal of Public Health Informatics, 5*(3). PMID: 24678377, PMCID: PMC3959914

\*,+**Reeder, Blaine**, Chung, Jane, Lazar, Amanda, Joe, Jonathan, Demiris, George, & Thompson, Hilaire J. (2013). Testing a Theory-Based Mobility Monitoring Protocol Using In-Home Sensors: A Feasibility Study. *Research in Gerontological Nursing, 6*(4), 253-263. PMID: 2393815, PMCID: PMC4099136

\*,+Huh, Jina, Le, Thai, **Reeder, Blaine**, Thompson, Hilaire J., & Demiris, George. (2013). Perspectives on Wellness Self-Monitoring Tools for Older Adults. *International Journal of Medical Informatics, 82*(11), 1092-1103. PMID: 24041452, PMCID: PMC3874863

\*,+Demiris, George, Thompson, Hilaire J., **Reeder, Blaine**, Wilamowska, Katarzyna, & Zaslavsky, Oleg. (2013). Using informatics to capture older adults' wellness. *International Journal of Medical Informatics, 82*(11), e232-e241. PMID: 21482182, PMCID: PMC4061974

\*,+**Reeder, Blaine**, Meyer, Ellen, Lazar, Amanda, Chaudhuri, Shomir, Thompson, Hilaire J., & Demiris, George. (2013). Framing the evidence for health smart homes and home-based consumer health technologies as a public health intervention for independent aging: A systematic review. *International Journal of Medical Informatics, 82*(7), 565-579. PMID: 23639263, PMCID: PMC3740158

\*,+Turner, Anne M., **Reeder, Blaine**, & Ramey, Judith. (2013). Scenarios, personas and user stories: User-centered evidence-based design representations of communicable disease investigations. *Journal of Biomedical Informatics, 46*(4), 575-584. PMID: 23618996, PMCID: PMC4077047

\*,+Le, Thai, **Reeder, Blaine**, Thompson, Hilaire J., & Demiris, George. (2013). Health Providers' Perceptions of Novel Approaches to Visualizing Integrated Health Information. *Methods of Information in Medicine, 52*(3), 250-258. PMID: 23450366, PMCID: PMC4062540

\*,+**Reeder, Blaine**, Demiris, George, & Marek, Karen D. (2013). Older adults' satisfaction with a medication dispensing device in home care. *Informatics for Health and Social Care, 38*(3), 211-222. PMID: 23323721, PMCID: PMC4122419

\*,+Turner, Anne M., **Reeder, Blaine**, & Wallace, James C. (2013). A Resource Management Tool for Public Health Continuity of Operations During Disasters. *Disaster Medicine and Public Health Preparedness, 7*(2), 146-152. PMID: 24618165, PMCID: PMC4062076

\*,+**Reeder, Blaine**, Revere, Debra, Hills, Rebecca A., Baseman, Janet G., & Lober, William B. (2012). Public Health Practice within a Health Information Exchange: Needs and Barriers to Disease Surveillance. *Online Journal of Public Health Informatics, 4*(3). PMID: 23569649, PMCID: PMC3615831

\*,+**Reeder, Blaine**, & Turner, Anne M. (2011). Scenario-based design: A method for connecting information system design with public health operations and emergency management. *Journal of Biomedical Informatics, 44*(6), 978-988. PMID: 21807120, PMCID: PMC3226920

\*,+**Reeder, Blaine**, Revere, Debra, Olson, Donald R., & Lober, William B. (2011). Perceived Usefulness of a Distributed Community-Based Syndromic Surveillance System: A Pilot Qualitative Evaluation Study. *BMC Research Notes, 4*(1), 187. PMID: 21672242, PMCID: PMC3146436

\*,+Thompson, Hilaire J., Demiris, George, Rue, Tessa, Shatil, Evelyn, Wilamowska, Katarzyna, Zaslavsky, Oleg, & **Reeder, Blaine**. (2011). A Holistic Approach to Assess Older Adults’ Wellness Using e-Health Technologies. *Telemedicine and e-Health, 17*(10), 794-800. PMID: 22011052, PMCID: PMC3228591

\*,+**Reeder, Blaine**, Hills, Rebecca A., Demiris, George, Revere, Debra, & Pina, Jamie. (2011). Reusable design: A proposed approach to Public Health Informatics system design. *BMC Public Health, 11*(1), 116. PMID: 21333000, PMCID: PMC3053242

\*,+**Reeder, Blaine**, & Demiris, George. (2010). Building the PHARAOH Framework Using Scenario-Based Design: A Set of Pandemic Decision-Making Scenarios for Continuity of Operations in a Large Municipal Public Health Agency. *Journal of Medical Systems, 34*(4), 735-739. PMID: 20703929, PMCID: PMC3676540

\*,+**Reeder, Blaine**, Turner, Anne M., & Demiris, George. (2010). Use of Technology to Support Information Needs for Continuity of Operations Planning in Public Health: A Systematic Review. *Online Journal of Public Health Informatics, 2*(1), 20. PMID: 23569577, PMCID: PMC3615754

Refereed Conference Papers

\*,+Gallimore, Malaika, Chelsea Howland, Jo-Ana D. Chase, Amy Grimsley, Chuka Emezue, Katrina Boles, Allison Anbari, LeeAnne B. Sherwin, Amy Vogelsmeier, Lori Popejoy, Marilyn J. Rantz, & **Blaine Reeder**. (2021). *Digital Methodology for Mobile Clinical Decision Support Development in Long-Term Care*. October 2-4, MedInfo 2021, Online.

\*,+Anderson, Blake, Cameron, Jason, Jefferson, Urmeka, & **Reeder, Blaine**. (2021). *Designing A Cloud-based System for Affordable Cyberinfrastructure to Support Software-Based Research*. October 2-4, MedInfo 2021, Online.

\*,+Sherwin, LeeAnne B, Yevu-Johnson, Justina, Matteson-Kome, Michelle, Bechtold, Matthew, & **Reeder, Blaine**. (2021). *Remote Usability Testing to Facilitate the Continuation of Research*. October 2-4, MedInfo 2021, Online.

\*,+,#**Reeder, Blaine**, Gallimore, Malaika, Howland, Chelsea, Emezue, Chuka, Boles, Katrina, Anbari, Allison, & Chase, Jo-Ana D. (2021). *Stepwise Evaluation Methodology for Smart Watch Sensor Function and Usability*. July 28, 2021 at HCI International 2021, Online.

\*,+Drake-Morrow, Cynthia, **Reeder, Blaine**, Perraillon, Marcello Coca, Ozkaynak, Mustafa, Wald, Heidi L, Eber, Leslie E, Trojanowski, Joanna I., Battaglia, Catherine, & Boxer, Rebecca S. (2020). *Information Needs of Skilled Nursing Facility Staff to Support Heart Failure Disease Management* Paper presented at the AMIA Annual Symposium 2020, Chicago, IL. (online)

\*,+,#**Reeder, Blaine**, Drake, Cynthia, Ozkaynak, Mustafa, Jones, Wallace , Mack, David, David, Alexandria, Starr, Raven, Trautner, Barbara , & Wald, Heidi L. (2019, July 26-31, 2019). *Usability inspection of a mobile clinical decision support app and a short form heuristic evaluation checklist.* HCI International 2019, Orlando, FL.

\*,#Ozkaynak, Mustafa, Valdez, Rupa, & **Reeder, Blaine**. (2017). *Toward Validity and Reliability in Capturing Workflow for Daily Living Using Multiple Methods*. Digital Health & Self-experimentation workshop at CHI 2017, Denver, CO.

\*,+,#**Reeder, Blaine**, Chung, Jane, Joe, Jonathan, Lazar, Amanda, Thompson, Hilaire J., & Demiris, George. (July 17-22, 2016). *Understanding Older Adults’ Perceptions of In-Home Sensors Using an Obtrusiveness Framework.* HCI International 2016, Toronto, CA.

\*,+Ozkaynak, Mustafa, Jones, Jacqueline, Weiss, Jason, Klem, Patrick, & **Reeder, Blaine**. (2016). *A Workflow Framework for Health Management in Daily Living Settings*. 13th International Congress in Nursing Informatics, Geneva, Switzerland.

\*,#**Reeder, Blaine**, Richard, Angela, & Crosby, Martha E. (2015). Technology-supported Health Measures and Goal-tracking for Older Adults in Everyday Living. *Foundations of Augmented Cognition, LNAI 9183*(AC 2015), 796-806. HCI International 2015, Los Angeles, CA.

\***Reeder, Blaine**, Demiris, George, & Thompson, Hilaire J. (2015). Smart Built Environments and Independent Living: A Public Health Perspective. *Smart Homes and Health Telematics: 12th International Conference, ICOST 2014, Denver, CO, USA, June 25-27, 2014, Revised Papers* (8456), 219-227.

\*,+**Reeder, Blaine**, Le, Thai, Thompson, Hilaire J., & Demiris, George. (2013). Comparing information needs of health care providers and older adults: findings from a wellness study. *Studies in Health Technology and Informatics, 192*, 18-22. PMID: 23920507, PMCID: PMC4362702

\*,+**Reeder, Blaine**, Zaslavsky, Oleg, Wilamowska, Katarzyna, Demiris, George, & Thompson, Hilaire J. (2011). Modeling the Oldest Old: Personas to Design Technology-Based Solutions for Older Adults. *AMIA Annual Symposium 2011*, 1166-1175.

\*,+Hills, Rebecca A., **Reeder, Blaine**, Revere, Debra, Lober, William B., & Abernethy, Neil F. (2010). Immunization information and population data sources: the information needs of public health practitioners. *Proceedings of the 1st ACM International Health Informatics Symposium, 1*(1), 459-463.

Refereed Conference Abstracts –Presentations

**\*,+**Boles, Katrina, Young, Lisa, Emezue, Chuka, Lee, Knoo, Anderson, Blake, **Reeder, Blaine**. (December 6-7, 2021). *Developing a Web-Based Interface to Manage Sensor Technologies in the Homes of Older Adults,* Podium presentation at the Aging and Health Informatics Conference, University of Texas at Austin, December 7, 2021, Austin, TX (online)

\*,+**Reeder, Blaine**, & Connelly, Kay. (April 10-13, 2019). *Feasibility of Sensor Technologies to Study Two Minds Theory and Behavior Change.* Panel presentation at the Western Institute of Nursing Conference 2019, San Diego, CA.

\*,+Chung, Jane, Brakey, Heidi R, & **Reeder, Blaine**. (April 11-13, 2019). *Attitudes and Perceptions of Older Adults for Smart Watches for Health and Activity Tracking.* Oral presentation at the American Nursing Informatics Association, Las Vegas, NV.

\*,+Ozkaynak, Mustafa, **Reeder, Blaine**, Alexander, Gregory, Ramly, Edmond, & Patel, Rupa. (2018*). Improving Care Delivery in Nursing Homes with Informatics*. Panel presentation at the AMIA 2018 Annual Symposium, San Francisco, CA.

\*,+Sousa, Karen, Ozkaynak, Mustafa, & **Reeder, Blaine**. (September 13-15, 2018). *ChiPS : A new/promising nurse-sensitive patient outcome.* Oral presentation at the CANS 2018, Washington, DC.

\*,+**Reeder, Blaine**, & Sousa, Karen. (April 11-14, 2018). *Precision Nursing For Systems-Level Knowledge Discovery.* Oral presentation at the Western Institute of Nursing Conference 2018, Spokane, WA.

\*,+Backonja, Uba, Carrington, Jane M., & **Reeder, Blaine**. (April 11-14, 2018). *Precision Nursing: Data-Driven Nursing to Transform Health & Support Health Equity.* Oral presentation at the Western Institute of Nursing Conference 2018, Spokane, WA.

\*,+Ozkaynak, Mustafa, Drake, Cynthia, **Reeder, Blaine**, Ferrarone, Peter, Trautner, Barbara, & Wald, Heidi L. (March 5-9, 2018). *Workflow-Informed Decision Support Tools For Nursing Homes.* Oral presentation at the Healthcare Information and Management Systems Society Annual Conference, Las Vegas, NV.

\*,+Ozkaynak, Mustafa, Drake, Cynthia, **Reeder, Blaine**, Wald, Heidi L, & Trautner, Barbara. (March 26-28, 2018). *Characterizing Workflow in Nursing Homes.* Oral presentation at the HFES 2018 International Symposium on Human Factors and Ergonomics in Health Care, Boston, MA.

\*,+**Reeder, Blaine**, & Ozkaynak, Mustafa. (April 19-22, 2017). *Overview of the CUPID Nursing Project.* Panel presentation at the Western Institute of Nursing Conference 2017, Denver, CO.

\*Turner, Anne M., Demiris, George, **Reeder, Blaine**, & Lazar, Amanda. (2016, November 16). Engaging older adults in the design, implementation and evaluation of Health IT. Panel presentation at the AMIA 2016 Annual Symposium, Chicago, IL.

\*Sables-baus, Sharon, Armstrong, Gail, Makic, Mary Beth F, **Reeder, Blaine**. (April 14-15, 2016). *The pebbles in my shoe - translating best evidence in an era of high reliability*. Oral presentation at the 28th Annual Rocky Mountain Regional Interdisciplinary Research & Evidence-Based Practice Symposium, Denver, CO.

\***Reeder, Blaine**, Sousa, Karen, Ozkaynak, Mustafa, & Welton, John M. (April 22-25, 2015). *Blazing New Trails: Mechanisms and Objectives of CCNR Data Sharing.* Panel presentation at the Western Institute of Nursing Conference 2015, Albuquerque, NM.

\*,+Chung, Jane, **Reeder, Blaine**, Joe, Jonathan, Lazar, Amanda, Savvides, Andreas, Thompson, Hilaire J., & George, Demiris. (June 23-27, 2013). *Living with Home-based Sensor Technology: Older Adults’ Perceptions.* Oral presentation at the International Association of Gerontology and Geriatrics 2013 World Congress, Seoul, Korea.

\*Lober, William B., Painter, Ian, **Reeder, Blaine**, & Revere, Debra. (December 6-8, 2011). *Gossamer Health: a meaningful, open-source approach to shared surveillance software.* Oral presentation at the International Society for Disease Surveillance Conference 2011: Building the Future of Public Health Surveillance, Atlanta, GA.

\*Zaslavsky, Oleg, **Reeder, Blaine**, Wilamowska, Katarzyna, Demiris, George, & Thompson, Hilaire J. (November 21, 2011). *Interdisciplinary Design Approaches: Methods and Recommendations from Applied Research.* Oral presentation at the Proceedings of the Gerontological Society of America's 64th Annual Scientific Meeting [Symposia], Boston, MA

\***Reeder, Blaine**, & Lober, William B. (August 21–24, 2011). *Gossamer Health: An Open Source System for Indicator-Based Public Health Surveillance and Meaningful Use.* Oral presentation at the Public Health Informatics 2011 Conference, Atlanta, GA.

\*Painter, Ian, Olson, Donald R., Gifford, Ann, Eaton, Julie, Johnson, Matthew, Lober, William B., Revere, Debra, **Reeder, Blaine**, & Baseman, Janet G. (June 12-16, 2011). *Data Quality Monitoring Approaches in the Distribute System.* Oral presentation at the Council of State and Territorial Epidemiologists (CSTE) Annual Conference 2011, Pittsburgh, PA.

\*Olson, Donald R., & **Reeder, Blaine**. (June 12-16, 2011). *Adopting and Assessing Use of a Common ILI Syndrome for Monitoring and Estimating Impact from Influenza across Multiple Sites in the Distribute Project.* Oral presentation at the Council of State and Territorial Epidemiologists (CSTE) Annual Conference 2011, Pittsburgh, PA.

\*Hills, Rebecca A., **Reeder, Blaine**, Pina, Jamie, & Revere, Debra. (October 11-12, 2010). *Reusable Design Methods for Public Health Information Systems.* Oral presentation at the Washington State Public Health Association (WSPHA) Joint Conference on Health 2011, Yakima, WA.

\*,+Wallace, James A., **Reeder, Blaine**, & Turner, Anne M. (August 31 - September 2, 2009). *CODA: A Continuity of Operations Data Analysis System for Public Health.* Oral presentation at the Public Health Informatics Network - Centers for Disease Control, Hyatt Regency Hotel, Atlanta, GA.

Refereed Conference Abstracts – Posters

\*,+ Gallimore, Malaika R., Emezue, Chuka, Howland, Chelsea, Grimsley, Amy, Boles, Katrina, Anbari, Allison B., Sherwin, LeeAnne B., Chase, Jo-Ana D., **Reeder, Blaine**. (2021). *Usability and Accuracy Evaluation of a Smart Ring Wearable Device.* Presented at the Aging and Health Informatics Conference, University of Texas at Austin, December 7, 2021 (online)

\*,+ Howland, Chelsea, Boles, Katrina, Gallimore, Malaika R., Emezue, Chuka, Anbari, Allison B., Chase, Jo-Ana D., **Reeder, Blaine**. (2021). *Usability, Feature, and Functionality Evaluation of the Amazfit Bips Smart Watch in the Precision START Laboratory.* Presented at the Aging and Health Informatics Conference, University of Texas at Austin, December 6, 2021 (online)

\*,+Grimsley, Amy, Boles, Katrina, Howland, Chelsea, Emezue, Chuka, Gallimore, Malaika R., Sherwin, LeeAnne B., Chase, Jo-Ana D., **Reeder, Blaine**, Anbari, Allison B. (2021). *Digital Methodology for Mobile Clinical Decision Support Development.* Presented at the AMIA Annual Symposium 2021, San Diego, CA. November 2021.

\*,+ Emezue, Chuka, Howland, Chelsea, Gallimore, Malaika R., Boles, Katrina, Grimsley, Amy, Sherwin, LeeAnne B., Anbari, Allison B., **Reeder, Blaine**, Chase, Jo-Ana D. (2021). *Usability and Accuracy Evaluation of the Fitbit Versa 3 Smart Watch Compared to Research-Grade Devices.* Presented at the AMIA Annual Symposium 2021, San Diego, CA. November 2021.

\*,+ Boles, Katrina, Gallimore, Malaika R., Emezue, Chuka, Howland, Chelsea, Grimsley, Amy, Chase, Jo-Ana D., Sherwin, LeeAnne B., Anbari, Allison B., **Reeder, Blaine**. (2021). *Comparing Performance of Hip-worn and Wrist-worn Research-Grade Activity Monitors for Daily Activities.* Presented at the AMIA Annual Symposium 2021, San Diego, CA. November 2021.

\*,+Emezue, Chuka, Gallimore, Malaika, Howland, Chelsea, Anbari, Allison, Chase, Jo-Ana D., & **Reeder, Blaine**. (2021). *Digital Methodology for Mobile Clinical Decision Support Development in the MU Precision Smart Technologies and Applications for Rapid Translation (Precision START) laboratory.* Paper presented at the Midwest Nursing Research Society - 2021 Annual Research Conference, Online.

\*,+Gallimore, Malaika, & **Reeder, Blaine**. (2021). *Systematic Review of Consumer Health Informatics Efforts to Influence Childhood Vaccine Uptake*. Presented at the Rita Kobb Nursing & Health Informatics National Symposium 2021. February 19, 2021 (virtual)

\*,+Gallimore, Malaika, & **Reeder, Blaine**. (2021). *Systematic Review of Consumer Health Informatics Efforts to Influence Childhood Vaccine Rates*. Accepted for Presentation at the Midwest Nursing Research Society 2021 Annual Research Conference. February, 2021 (virtual)

\*,+Chase, Jo-Ana, Howland, Chelsea, Gallimore, Malaika, & **Reeder, Blaine**. ( 2020). *Usability and Feature Evaluation of the Amazfit Bip S Smart Watch in the Precision START Lab*. Presented at the GSA 2020 Annual Scientific Meeting Online. October, 2020

\*,+Gallimore, Malaika, & **Reeder, Blaine**. (2020). *Systematic Review of Consumer Health Informatics Efforts to Influence Childhood Vaccine Uptake*. Presented at the AMIA Annual Symposium 2020, Chicago, IL. November, 2020 (online)

\*,+Howland, Chelsea, Gallimore, Malaika, Chase, Jo-Ana, & **Reeder, Blaine**. (2020). *Usability and Feature Evaluation of the Amazfit Bip S Smart Watch in the Precision START Laboratory*. Presented at the AMIA Annual Symposium 2020, Chicago, IL. November, 2020 (online)

\*,+Anderson, Blake, & **Reeder, Blaine**. (2020). *Hekademeia: Sustainable Research Technology Infrastructure for Persistent Project Access Across Funding Gaps*. Presented at the AMIA Annual Symposium 2020, Chicago, IL. November, 2020 (online)

Cook, Paul F., **Reeder, Blaine**, Jankowski, Catherine, Starr, Whitney, Erlandson, Kristine, & Makic, Mary Beth. (2020). Physical Activity in People with HIV: Patterns & Predictors Based on Sensors and Surveys. Paper presented at the Western Institute of Nursing Conference 2020. April, 2020.

\*,+**Reeder, Blaine**, Gutierrez, Eric, Pena, Ewelina, Molchan, Haley, Connelly, Kay, Siek, Katie, Caine, Kelly, Demiris, G. (November 16-20, 2019). *HomeSHARE: Implementing Multi-site Smart Technology Infrastructure*. Poster presentation at the AMIA Annual Symposium 2019, Washington, DC.

\*,+**Reeder, Blaine**, Gutierrez, Eric, Pena, Ewelina, Molchan, Haley, Connelly, Kay, Siek, Katie, Caine, Kelly, Demiris, G. (October 23-24, 2019). *HomeSHARE: Multi-site Smart Technology Infrastructure*. Poster presentation at the CANS Advanced Methods Conference - The Expanding Science of Sensor Technology in Research, Washington, DC.

\*,+Drake, Cynthia, **Reeder, Blaine**, Peraillon, Marcelo Coca, & Boxer, Rebecca S. (2019, April 27-28, 2019). *Information needs and design recommendations to support heart failure disease management in skilled nursing facilities.* Poster presentation at the Inaugural Conference of the Program of Post-Acute and Long-Term Care and Data to Patient Value (D2V), Aurora, CO.

\*,+**Reeder, Blaine**, Sutcliffe, Britney, Drake, Cynthia, Makic, Mary Beth, Gritz, R. Mark, & Wald, Heidi L. (November 03 - 07, 2018). *Design and Evaluation of Low-fidelity Prototype Visual Displays for Multiple Hospital-Acquired Conditions.* Poster presentation at the AMIA Annual Symposium 2018, San Francisco, CA.

\*,+Chung, Jane, **Reeder, Blaine**, & Brakey, Heidi R. (September 13-15, 2018). *Older Adults’ Privacy Concerns and Willingness to Share GPS-Based Activity Data.* Poster presentation at the CANS 2018, Washington, DC.

\*,+**Reeder, Blaine**, Ozkaynak, Mustafa, Makic, Mary Beth, & Sousa, Karen. (November 04 - 08, 2017). *Examining Nurses’ Use of Electronic Health Records to Document Symptoms in Acute Care Settings* Poster presentation at the AMIA Annual Symposium 2017, Washington, DC.

\*,+David, Alexandria, **Reeder, Blaine** (April 19-22, 2017). *Comparing Smart Watch and Research Grade Activity Monitors*. Poster presentation at the Western Institute of Nursing Conference 2017, Denver, CO.

\*,+Stolper, Samantha, **Reeder, Blaine**, & Christiansen, Cory. (February 15-18, 2016). *Exploring Patient Rehabilitation Experience after Lower Limb Amputation: A Qualitative Analysis.* Poster presentation at the Combined Sections Meeting (CSM) 2016 of the American Physical Therapy Association, Anaheim, CA.

\***Reeder, Blaine**, Richard, Angela, Falvey, Jason, Paxton, Roger, & Stevens-Lapsley, Jennifer. (November 14-18, 2015). *Adapting a Mobility Monitoring Protocol for Sensor Studies with Functionally Vulnerable Older Adults.* Poster presentation at the AMIA Annual Symposium 2015, San Francisco, CA.

\*,+Ozkaynak, Mustafa, **Reeder, Blaine**, Hoffecker, Lillian, Makic, Mary Beth, & Sousa, Karen. (November 14-18, 2015). *Nurses’ Use of Electronic Health Records to Document Symptoms in Inpatient Settings: Preliminary Systematic Review Results.* Poster presentation at the AMIA Annual Symposium 2015, San Francisco, CA.

\*,+Connelly, Kay, **Reeder, Blaine**, Hall, Amanda K., Caine, Kelly, Siek, Katie, & Demiris, George. (November 14-18, 2015). *HomeSHARE: A Distributed Smart Homes Testbed Initiative.* Poster presentation at the AMIA Annual Symposium 2015, San Francisco.

\*,+**Reeder, Blaine**, Lyden, Kate, Winters, Joshua L., & Jankowski, Catherine M. (April 22-25, 2015). *Older Adult Women’s Perceptions of Activity Sensors.* Poster presentation at the Western Institute of Nursing Conference 2015, Albuquerque, NM.

\*,+Ozkaynak, Mustafa, **Reeder, Blaine**, Makic, Mary Beth, & Sousa, Karen. *Nurses’ Use of the Electronic Health Record to Document Patient Symptoms in Acute Care Settings.* Poster presentation at the Western Institute of Nursing Conference 2015, Albuquerque, NM.

\*Hall, Amanda K., **Reeder, Blaine**, Caine, Kelly, Connelly, Kay, Demiris, George, & Siek, Katie. (March 23, 2015). *HomeSHARE: An Initiative to Develop a Geographically Distributed Smart Homes Testbed.* Poster presentation at the AAAI Spring Symposia 2015, Ambient Intelligence for Health and Cognitive Enhancement Symposium, Palo Alto, CA.

\*,+**Reeder, Blaine**, & Whitehouse, Kamin. (November 15-19, 2014). *Visualizing Technology Types for Gait Speed Detection in Older Adults.* Poster presentation at the AMIA Annual Symposium 2014, Washington, DC.

\*,+Kalyanaraman, Avinash, **Reeder, Blaine**, & Whitehouse, Kamin. (November 15-19, 2015). *Benefits and Challenges of a Height Sensing Approach for In-Home Gait Speed Detection.* Poster presentation at the AMIA Annual Symposium 2014, Washington, DC.

\*Sousa, Karen, **Reeder, Blaine**, Ozkaynak, Mustafa, & Welton, John M. (November 15-19, 2014). *Specifying Initial Requirements and Architecture for the CUPID System.* Poster presentation at the AMIA Annual Symposium 2014, Washington, DC.

\***Reeder, Blaine**, & Demiris, George. (April 9-12, 2014). *Using Informatics to Capture Human Response: Home-Based Health Technologies.* Poster presentation at the Western Institute of Nursing Conference 2014, Seattle, WA.

\*Reynolds, Tera, Suda, Katie, **Reeder, Blaine**, Storm, William, Ozonoff, Al, & Burkom, Howard. (December 3-5, 2012). *Collaborating for an improved disease surveillance literature review.* Poster presentation at the International Society for Disease Surveillance Conference 2012, San Diego, CA.

\***Reeder, Blaine**, Chung, Jane, Joe, Jonathan, Lazar, Amanda, Savvides, Andreas, Thompson, Hilaire J., & Demiris, George. (November 3-7, 2012). *Informing Field Research: Considerations from a Community-Based Feasibility Study with Older Adults and Technology Sensors.* Poster presentation at the AMIA Annual Symposium 2012, Chicago, IL.

\***Reeder, Blaine**, Chung, Jane, Joe, Jonathan, Lazar, Amanda, Thompson, Hilaire J., & Demiris, George. (September 19, 2012). *Informing Field Research: Considerations from a Feasibility Study with Older Adults and Sensor Technology.* Poster presentation at the University of Washington Elder-Friendly Futures Initiative, Creating Elder-Friendly Communities: A UW Gerontology Research Forum, Seattle, WA.

\*Le, Thai, **Reeder, Blaine**, Yoo, Daisy, Thompson, Hilaire J., & Demiris, George. (September 19, 2012). *Engaging Older Adults using Focus Groups: Lessons Learned from a Visual Design Evaluation.* Poster presentation at the University of Washington Elder-Friendly Futures Initiative, Creating Elder-Friendly Communities: A UW Gerontology Research Forum, Seattle, WA.

\***Reeder, Blaine**, & Demiris, George. (December 6-8, 2011). *Smart homes and novel indicators to inform an evidence-based population health intervention for aging in place and design of a community health registry.* Poster presentation at the International Society for Disease Surveillance Conference 2011: Building the Future of Public Health Surveillance, Atlanta, GA.

\*Pina, Jamie, Clarkson, Melissa, Hills, Rebecca A., **Reeder, Blaine**, & Demiris, George. (May 25-27, 2011). *Visualizing the Convergence of Two Disciplines: Design Methods and Public Health Informatics.* Poster presentation at the AMIA Spring Conference, Public Health Informatics 2011, Orlando, FL.

\*,+Hills, Rebecca A., Revere, Debra, **Reeder, Blaine**, & Lober, William B. (May 25-27, 2011). *Information Needs Related to Immunization: a Qualitative Study.* Poster presentation at the AMIA Spring Conference, Public Health Informatics 2011, Orlando, FL.

\*,+**Reeder, Blaine**, & Revere, Debra. ( November 30, 2010 – December 2, 2010). *Utility Assessment of a Community-Based Syndromic Surveillance System: Preliminary Pilot Results.* Poster presentation at the International Society for Disease Surveillance Conference 2010, Park City, UT.

\*Demiris, George, Thompson, Hilaire J., Roesler, Axel, **Reeder, Blaine**, Wilamowska, Katarzyna, & Zaslavsky, Oleg. (November 13-17, 2010). *An Informatics Platform for Older Adults Wellness.* Poster presentation at the AMIA Annual Symposium 2010, Washington, DC.

\***Reeder, Blaine**, & Demiris, George. (May 29, 2010). *Informing the design of built environments to promote wellness - a public health perspective.* Poster presentation at the International Society for Gerontechnology 7th World Conference, Vancouver, BC.

\*,+**Reeder, Blaine**, Wallace, James A., & Turner, Anne M. (August 31 - September 2, 2009). *The Value of Scenario-Based Design: Using Pandemic Decision-Making Scenarios in the Context of the Continuity of Operations Data Analysis (CODA) Project.* Poster presentation at the Public Health Informatics Network - Centers for Disease Control, Hyatt Regency Hotel, Atlanta, GA.

\*,+**Reeder, Blaine**, & Demiris, George. (July 7, 2008). *Exploring the role of Information Technology in Decision-Making of Business Continuity Planners in Public Health (Poster Presentation).* Poster presentation at the *Robert Wood Johnson Foundation Public Health Informatics Fellows Workshop*, Hilton Washington DC/Rockville Executive Meeting Center.

Non-Refereed Conference Abstracts

+Sutcliffe, Britney, & **Reeder, Blaine.** (2018, April 11-14, 2018). *Designing Visual Displays for Multiple Competing Risks in Hospitals*. Poster presentation at the Western Institute of Nursing Conference - Research Information Exchange, Spokane, WA.

Book Chapters

#Ozkaynak, Mustafa, **Reeder, Blaine**, Park, Sun Young, & Huh, Jina. (2019). Design for Improved Workflow. In F. Sasangohar & A. Sethumadhavan (Eds.), *Design for Healthcare*. New York: Elsevier.

#Demiris, George, & **Reeder, Blaine**. (2018). E-health and Consumer Health informatics. In G. Brown, K. Pasupathy & T. Patrick (Eds.), (2018) *Health Informatics: A System's Perspective, 2nd Edition*. Chicago, IL: Health Administration Press.

#Demiris, George, & **Reeder, Blaine**. (2013). E-health and Consumer Health informatics. In G. Brown, K. Pasupathy & T. Patrick (Eds.), *Health Informatics: A System's Perspective* (pp. 213-240). Chicago, IL: Health Administration Press.

White Papers

Harrington, Christina N, Jelen, Ben, Lazar, Amanda, Martin-Hammon, Aqueasha, Pradhan, Alisha, **Reeder, Blaine,** & Siek, Katie. (2021). Taking Stock of the Present and Future of Smart Technologies for Older Adults and Caregivers. *A Computing Community Consortium (CCC) Quadrennial Paper*. (available from https://par.nsf.gov/biblio/10249396)

**Presentations/Panel Talks**

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| 2021 | Invited Panelist, “Conducting Interdisciplinary Research”, Aging and Health Informatics Conference, University of Texas at Austin, December 7, 2021 |
| 2021 | Collaborative Health Researchers Interdiscipinary Seminar Series Presentation, “ASSETs for Access:Evolution of an Interdisciplinary Technology-Supported Intervention Research Team”, University of Missouri, October 26, 2021 |
| 2021 | Invited Panelist, Health Tech Views and Voices: Transparency about Healthcare Quality, AMIA Ethical, Legal, and Social Issues (ELSI) Working Group, September 14, 2021 |
| 2021 | Invited Panelist, Rita Kobb Nursing and Health Informatics Symposium, Precision Nursing Presentation, College of Nursing, University of Florida (online) February 19, 2021 |
| 2020 | Blaine Reeder & Jo-Ana D. Chase. Enabling Doctoral Education with Digital Research Methodology.Presented at the AMIA Annual Symposium 2020, Chicago, IL. (online) |
| 2020 | Seminar presentation, “Standing up the Precision START lab for Technology Evaluation in Digital Health Research”, MU Institute for Data Science and Informatics, February 27, 2020 |
| 2020 | Collaborative Health Researchers Interdiscipinary Seminar Series Presentation, “Considerations for Evaluating, Selecting and Using Smart Technologies in Research”, University of Missouri, February 11, 2020 |
| 2019 | Visiting Faculty Presentation, “Collaborative Research on Home-based Smart Health Applications across Research Environments (HomeSHARE)”, School of Nursing, University of Texas Health Sciences Center San Antonio, San Antonio, TX, March 27, 2019 |
| 2018 | Visiting Faculty Presentation, “User-Centered Design in Interdisciplinary Digital Health Projects”, Sinclair School of Nursing, University of Missouri, Columbia, MO October 23, 2018 |
| 2018 | Invited Presentation, “Human-Centered Design Methods for Digital Health Projects”, ACCORDS mHealth/Digital Health Workshop Developing Across Disciplines: Team-Based Science for Mobile and Digital Health, June 15, 2018, Aurora, CO |
| 2017 | Invited Presentation, “Cyber Security and the HomeSHARE project”, CINC UP - Cyber Security Research Acceleration Workshop and Showcase, Internet2 2017 Technology Exchange, October 18, 2017, San Francisco, CA |
| 2015 | Invited Presentation, Post-Acute Care Research And Team Science group, “Informatics and Design”, December 10, 2015, Aurora, CO |
| 2015 | Invited Presentation, Anschutz Medical Campus Bioinformatics Journal Club, “Estimating Sensor Performance for Detection of Walking Speed through NHATS Data Set Analysis”, June 12, 2015, Aurora, CO |
| 2015 | Invited Presentation, Western Academy of Nurses panel presentation at Western Institute of Nursing Conference 2015, “Emerging Opportunities for Big Data in Nursing”, April 25, 2015, Albuquerque, NM |
| 2014 | Invited Presentation, Colorado Health Information Management Systems Society (CHIMSS) annual meeting at National Jewish Health, “Integrating Smart Home Technologies and Electronic Health Records Data”, June 16, 2014, Denver, CO |
| 2014 | Invited Presentation, University of Colorado Anschutz Medical Campus, Nursing Informatics Webinar, “Framing health smart homes research using an evidence-based public health typology: integrated methods and findings from a systematic review”, March 13, 2014, Aurora, CO. |
| 2013 | Invited Presentation, University of Washington, dub (Design Use Build) group, “Informatics and Aging in Place: Evidence and Potential”. February 27, 2013. Seattle, WA. |
| 2013 | Invited Presentation, “Informatics and Aging in Place” presented at Microsoft Research. January, 30, 2013. Redmond, WA. |
| 2011 | \*Biosurveillance use case presenter during the Interoperability Showcase at Healthcare Information and Management Systems Society (HIMSS) Annual Conference. February 20-24, 2011. Orlando, FL. |

**OTHER SCHOLARSHIP**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
| 2014 | Invited Participant | Microsoft Research Faculty Summit 2014 | Microsoft Research |
| 2014 | Selected Participant | ​Developing Biobehavioral Interventions: A Summer Research Institute | Center for Innovative Care in Aging, Johns Hopkins University School of Nursing |
| 2013 | Invited Participant | Microsoft Research Faculty Summit 2013 | Microsoft Research |
| 2013 | Invited Participant | Microsoft Research Smart Homes Think Tank | Microsoft Research |
| 2008 | Selected Participant | International Partnership in Health Informatics Education Master Class | University of Utah School of Medicine |

##### TEACHING ACTIVITIES

**COURSES TAUGHT**

**University of Missouri**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Year** | **Number** | **Name** | **Program** | **Role** | **Students** |
| Fall 2021 | N8830 | Informatics Applications and Innovations in Health Care Systems | Nursing | 100% | 22 |
| Fall 2021 | DATA\_SCI 8001 | Advanced Topics in Data Science and Analytics – Usability Evaluation | Data Science | 100% | 8 |
| SPR 2021 | DATA\_SCI 8001 | Advanced Topics in Data Science and Analytics – Usability Evaluation | Data Science | 100% | 2 |
| Fall 2020 | N8830 | Informatics Applications and Innovations in Health Care Systems | Nursing | 100% | 14 |
| Fall 2019 | N8830 | Informatics Applications and Innovations in Health Care Systems | Nursing | 50% | 14 |

**University of Colorado Anschutz Medical Campus**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Year** | **Number** | **Name** | **Program** | **Role** | **Students** |
| Spr 2019 | NURS 6286\* | Foundations of Healthcare Informatics | Informatics | 100% | 15 |
| Fall 2018 | NURS 6285\* | Human-Computer Interaction Design | Informatics | 100% | 12 |
| Spr 2018 | NURS 6286\* | Foundations of Healthcare Informatics | Informatics | 100% | 34 |
| Spr 2018 | NURS 6856 | Graduate Independent Study (MS) | Informatics | 100% | 1 |
| Spr 2018 | NURS 4727 | Honors Independent Study | UG Honors | 100% | 1 |
| Fall 2017 | NURS 6285\* | Human-Computer Interaction Design | Informatics | 100% | 22 |
| Fall 2017 | NURS 4727 | Honors Independent Study | UG Honors | 100% | 1 |
| Spr 2017 | NURS 4727 | Honors Independent Study | UG Honors | 100% | 1 |
| Fall 2016 | NURS 6285\* | Human-Computer Interaction Design | Informatics | 100% | 8 |
| Fall 2016 | NURS 4727 | Honors Independent Study | UG Honors | 100% | 1 |
| Sum 2016 | NURS 6279\* | Knowledge Management | Informatics | 100% | 18 |
| Spr 2016 | NURS 6286\* | Foundations of Healthcare Informatics | Informatics | 100% | 35 |
| Fall 2015 | NURS 6285\* | Human-Computer Interaction Design | Informatics | 100% | 8 |
| Sum 2015 | NURS 6279\* | Knowledge Management | Informatics | 100% | 15 |
| Spr 2015 | NURS 6286\* | Foundations of Healthcare Informatics | Informatics | 100% | 30 |
| Fall 2014 | NURS 6285\* | Human-Computer Interaction Design | Informatics | 100% | 25 |
| Sum 2014 | NURS 6279\* | Knowledge Management | Informatics | 100% | 17 |
| Spr 2014 | NURS 6286\* | Foundations of Healthcare Informatics | Informatics | 50% | 22 |
| Fall 2013 | NURS 6293\* | Database Management Systems | Informatics | 50% | 23 |

\* Delivered online using Canvas

**Bellevue College**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Year** | **Number** | **Name** | **Program** | **Role** | **Students** |
| Win 2012 | HI 101\* | Health Informatics 101 | VA | 100% | 50 |
| Aut 2011 | HI 101\* | Health Informatics 101 | VA | 100% | 50 |
| Aut 2011 | HI 101\*\* | Public Health Informatics Fundamentals | WA DOH | 100% | 35 |

\* Delivered online using Moodle, \*\* Hybrid delivery using Moodle and in-person lectures

**Guest Lectures**

|  |  |  |  |
| --- | --- | --- | --- |
| **Year** | **Course Name & Number** | **Presentation Title** | **Institution** |
| 9/5/2018 | NURS 7760 Interventions and Outcomes | Overview and Evolution of the  HomeSHARE project | University of Colorado Anschutz Medical Campus |
| 6/11/2018 | College of Nursing PhD Intensives | Applied Technology and Research at the CU College of Nursing | University of Colorado Anschutz Medical Campus |
| 1/31/2018 | NURS 7750 Interpersonal Phenomena & Determinants | Informatics and Human-Centered Design to Connect Community and Clinical Contexts | University of Colorado Anschutz Medical Campus |
| 2/2/2017 | NURS 7750 Interpersonal Phenomena & Determinants | Informatics and Biobehavioral Research | University of Colorado Anschutz Medical Campus |
| 9/8/2016 | NURS 7760  Interventions and Outcomes | Evidence for Smart Watches in Intervention and Outcomes Research | University of Colorado Anschutz Medical Campus |
| 9/7/2016 | College of Nursing PhD Intensives | CUPID Project Overview: Milestones Reached and Planned | University of Colorado Anschutz Medical Campus |
| 4/16/2016 | BIOS 6685 Introduction to Public Health Informatics | Considerations for Implementation of Sensor-Based Technologies | Colorado School of Public Health |
| 2/3/2016 | NURS 7750 Interpersonal Phenomena & Determinants | Informatics and Biobehavioral Research | University of Colorado Anschutz Medical Campus |
| 9/9/2015 | NURS 7760  Interventions and Outcomes | How Technology Can Underpin Intervention and Outcomes Research | University of Colorado Anschutz Medical Campus |
| 4/14/2015 | NURS 7730  Changing Health Care Delivery Systems | Human-Computer Interaction and Informatics in Nursing | University of Colorado Anschutz Medical Campus |
| 1/29/2015 | NURS 7750 Interpersonal Phenomena & Determinants | Informatics and Biobehavioral Research | University of Colorado Anschutz Medical Campus |
| 5/6/2013 | MEBI 591C Practical Aspects of Clinical Research | Research and Technology Innovation in Health Informatics | University of Washington |
| 4/16/2013 | MEBI 590A Biomedical and Health Informatics Lecture Series | Framing Health Smart Homes Research using an Evidence-based Public Health Typology | University of Washington |
| 4/9/2013 | MEBI 591B Professional and Career Development | Pre-doctoral Research Considerations for Career Goals | University of Washington |
| 2/22/2013 | NURS 599C Seminars in Biobehavioral Health | Nursing Research and Technology Innovation | University of Washington |
| 10/18/2012 | I667 Seminar in Health Informatics II\* | Focus Groups for Design and Evaluation in Health Informatics | Indiana University |
| 5/9/2012 | MEBI 554 Biomedical Interactions and Design | Stakeholder Engagement, Information Design and Design Evaluation for Informaticians | University of Washington |
| 5/12/2011 | MEBI 554 Biomedical Interactions and Design | Stakeholder Engagement, Information Design and Design Evaluation for Informaticians | University of Washington |
| 3/14/2011 | BIOS 6670 Topics in Public Health Informatics\* | Stakeholder Engagement, Information Design and Evaluation for Public Health Informaticians | Colorado School of Public Health |

\* Delivered synchronously online

**DISSERTATION AND THESIS ADVISING**

**Chair, PhD Doctoral Committee, University of Missouri**

|  |  |  |
| --- | --- | --- |
| 2021- | Drew Herbert | Topic: Mobile Technology Support for Substance Use Disorders |
| 2021-2021 | Keydra Oladapo | Topic: Maternal Child Health (withdrawn) |
| 2020- | Katrina Boles | Topic: Data Visualization for Decision Making |
| 2019- | Malaika Gallimore | Topic: Tailored Information Delivery for Vaccine Hesitant Parents to Increase Childhood Immunization Uptake |

**Member, PhD Doctoral Committee, University of Missouri**

|  |  |  |
| --- | --- | --- |
| 2021- | Leslie Zimpelman | Topic: Signal Detection for Patient Deterioration in Simulation with Nursing Students |
| 2020- | Amy Grimsley | Topic: Telehealth and Palliative Care |
| 2020- | Chelsea Howland | Topic: Technology Support for Rural Older Adults Living with Diabetes |

**Member, PhD Doctoral Committee, University of Colorado**

|  |  |  |
| --- | --- | --- |
| 2017- | Cynthia Drake | “A Mixed Methods, Community-Engaged Study of Heart Failure Management in Skilled Nursing Care in Nursing Homes” |

**Chair, MS Comprehensive Exam Committee, University of Colorado**

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| --- | --- | --- |
| 4/17/2015 | Kelly Brown | “Increasing Anesthesia Data Completeness in the Society of Thoracic Surgeons Database” |
| 4/16/2015 | Justin Allen | “Physician Satisfaction with Electronic Health Record Systems” |
| 4/13/2015 | Lindy Buhl | “Attributing Clinical LOINC Concepts” |
| 11/7/2014 | Heather Zuhn | “Meaningful Use Education in Critical Access Hospitals” |

**Member, MS Comprehensive Exam Committee, University of Colorado**

2013-present Committee Member, Comprehensive Exam Committee for 79 Masters Degree in Health Care Informatics Students, University of Colorado College of Nursing (as of 3/10/2019)

**Mentor, Undergraduate Nursing Honors, University of Colorado**

|  |  |  |
| --- | --- | --- |
| 2019- | Ewelina Pena | HomeSHARE Research Experience for Undergraduates (REU) |
| 2016-2018 | Britney Sutcliffe | Thesis title: “Understanding Older Adult Technology-readiness for Telehealth and Health Smart Homes” |
| 2015-2017 | Alexandria David | Thesis title: “Consumer grade smart technology: Are these devices viable for health research?” |

**CURRICULAR DEVELOPMENT**

|  |  |
| --- | --- |
| 2020 | Curriculum Developer, Data Science 8001, Usability Evaluation for Data Science, MU Institute for Data Science and Informatics, University of Missouri |
| 2020 | Curriculum Developer, NURSE 8XXX, Evaluating Smart Technologies for Digital Health Research, Sinclair School of Nursing, University of Missouri |
| 2019 | Curriculum Reviewer, map AMIA 2017 core competencies for applied health informatics education to NURS 6285 Human-Computer Interaction Design and NURS 6279 Knowledge Management Masters of Informatics courses for Commission on Collegiate Nursing Education (CCNE) accreditation effort, University of Colorado |
| 2014 | Curriculum Reviewer, review and revise entire Masters of Informatics program for Commission on Collegiate Nursing Education (CCNE) accreditation effort, University of Colorado |
| 2010-2011 | Curriculum Developer, develop tailored introductory informatics courses for online delivery to providers and technical professionals at the U.S. Department of Veterans Affairs and the Washington State Department of Health, Bellevue College |

**OTHER TEACHING ACTIVITIES**

|  |  |
| --- | --- |
| 2009 | Student Mentor, Organized and chaired a mock qualifying exam committee to prepare 2008 BHI Ph.D. cohort for qualifying examinations. Led a mock oral exam prior to actual examination |

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SERVICE ACTIVITIES

**UNIVERSITY COMMITTEES**

(School of Nursing – S; Campus-C; University-U)

|  |  |
| --- | --- |
| 2020-present | University of Missouri Sinclair School of Nursing Doctoral Faculty Search Committee for Tenured/Tenure-Track Faculty (S), Chair |
| 2020-present | University of Missouri Sinclair School of Nursing Policy Committee (S), Member |
| 2020-present | University of Missouri MU Institute for Data Science and Informatics Education Committee (C), Member |
| 2020-present | University of Missouri Precision Health Initiative (U), Member Representative for Sinclair School of Nursing |
| 2020-2020 | University of Missouri Sinclair School of Nursing Search Committee for Associate Dean for Research (S), Member |
| 2019-2020 | University of Missouri Sinclair School of Nursing Doctoral Faculty Search Committee for Tenured/Tenure-Track Faculty (S), Member |
| 2019-2019 | University of Colorado College of Nursing Search Committee for Tenured/Tenure-Track Faculty (S), Member |
| 2018-2019 | University of Colorado College of Nursing Search Committee for Informatics Specialty Director (S), Member |
| 2016-2017 | University of Colorado College of Nursing Intranet Task Force (S), Member |
| 2016-2017 | University of Colorado College of Nursing Leadership Team (S), Member |
| 2016-2017 | University of Colorado College of Nursing Research Committee (S), Chair |
| 2015-2017 | University of Colorado College of Nursing Research Committee (S), Elected Member |
| 2015-2018 | University of Colorado College of Nursing Undergraduate Honors Program (S), Student Faculty Mentor |
| 2015-2016 | University of Colorado College of Nursing Undergraduate Honors Program Admissions (S), Committee Member |

**PROFESSIONAL ASSOCIATIONS**

**Memberships**

|  |  |
| --- | --- |
| 2007-present | American Medical Informatics Association |
| 2010-2013 | International Society for Disease Surveillance |
| 2010-2012 | Washington State Public Health Association |
| 2011-2012 | Association for Veterinary Informatics |

**PROFESSIONAL REVIEW ACTIVITIES**

Grant Reviews

|  |  |
| --- | --- |
| 2022 (February) | Panel Reviewer, Multi-modal Sensing, National Science Foundation (scheduled) |
| 2021 (September) | Panel Reviewer, Fairness in Artificial Intelligence, National Science Foundation |
| 2021 (April) | Panel Reviewer, Smart and Connected Health, National Science Foundation |
| 2020 | Reviewer, University of Missouri School of Medicine TRIUMPH grant program |
| 2018-2019 | Invitation to Review Panel (no reviews assigned, Federal Government shutdown), National Science Foundation, Smart and Connected Health program |
| 2018 | External reviewer, Hong Kong Polytechnic School of Nursing |
| 2014 | Peer reviewer, Ontario Research Fund – Research Excellence (ORF-RE) program, Ministry of Research and Innovation, Ontario, Canada |

Journal/Report Reviews

|  |  |
| --- | --- |
| 2021 | Health Policy and Technology |
| 2020-2021 | Applied Clinical Informatics, Reviewer |
| 2018-2021 | The Gerontologist, Reviewer |
| 2020-2021 | Gerontology, Reviewer |
| 2020 | National Academy of Sciences, Board on Behavioral, Cognitive and Sensory Sciences, Mobile Technologies for Adaptive Aging Report, Reviewer |
| 2012-2014, 2017-2018 | Informatics for Health and Social Care, Reviewer |
| 2011, 2016-2019 | International Journal of Medical Informatics, Reviewer |
| 2018 | Journal of the American Medical Informatics Association, Reviewer |
| 2018 | International Journal of Human - Computer Studies |
| 2018 | Computer Methods and Programs in Biomedicine, Reviewer |
| 2018 | Health Policy and Technology, Reviewer |
| 2018 | Journal of Immigrant and Minority Health, Reviewer |
| 2017-2018 | Geriatric Nursing, Reviewer |
| 2017 | Pervasive and Mobile Computing, Reviewer |
| 2015-2017 | Journal of Medical Systems, Reviewer |
| 2015-2017 | IMIA Yearbook of Medical Informatics, Reviewer |
| 2015-2016 | Assistive Technology |
| 2014-2016 | eGEMs open access journal, Reviewer |
| 2013-2017, 2019 | Journal of Biomedical Informatics, Reviewer |
| 2015-2016 | Health Informatics Journal, Reviewer |
| 2010-2011, 2014 | Qualitative Health Research, Reviewer |
| 2011 | Journal of Public Health Management and Practice, Reviewer |
| 2011 | Journal of the American Society for Information Science and Technology, Reviewer |

Conference Reviews

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| --- | --- |
| 2021 | Aging and Health Informatics 2021, December 6-7, 2021. Austin, TX, Reviewer |
| 2021 | AMIA Annual Symposium 2021, October 3-Nov 30, 2021, San Diego, CA, Reviewer |
| 2020 | AMIA Annual Symposium 2020, November 14-18, 2020, Chicago, IL, Reviewer |
| 2019 | AMIA Annual Symposium 2019, November 16-20, 2019, Washington, DC, Reviewer |
| 2019 | CANS Advanced Methods Conference - The Expanding Science of Sensor Technology in Research, October 23-24, 2019. Washington, DC, Reviewer |
| 2018 | WIN Conference 2019, April 10-13, 2019, San Diego, CA, Reviewer |
| 2018 | AMIA Annual Symposium 2018, November 3-7, 2018, San Francisco, CA, Reviewer |
| 2017 | ACM CHI 2018, April 21-26, Reviewer, Montreal, QC, Reviewer |
| 2017 | WIN Conference 2018, April 11-14, 2018, Spokane, WA, Reviewer |
| 2017 | AMIA Annual Symposium 2017, November 4-8, 2017, Washington DC, Reviewer |
| 2016 | AMIA Annual Symposium 2016, November 12-16, 2016, Chicago, IL, Reviewer |
| 2015 | ACM CHI 2016, San Jose CA, Reviewer |
| 2015 | AMIA Annual Symposium 2015, November 14-18, 2015, San Francisco, CA, Reviewer |
| 2014 | WIN Conference 2015, April 23-25, 2015, Albuquerque, NM, Reviewer |
| 2014 | AMIA Annual Symposium 2014, November 15-19, 2014, Washington, DC, Reviewer |
| 2014 | IADIS International Conference on e-Health 2014, July 17-19, 2014, Lisbon, Portugal, Program Committee Member |
| 2013 | AMIA Annual Symposium 2013, November 16-20, 2013, Washington, DC, Reviewer |
| 2013 | Pervasive Health 2013, May 5-8, 2013, Venice, Italy, Reviewer |
| 2013 | IADIS International Conference on e-Health 2013, July 24-26, 2012, Prague, Czech Republic, Program Committee Member |
| 2012 | AMIA Annual Symposium 2012, November 3-7, 2012, Chicago, IL, Reviewer |
| 2012 | IADIS International Conference on e-Health 2012, July 17-19, 2012, Lisbon, Portugal, Program Committee Member |
| 2012 | SIGCHI Designing Interactive Systems (DIS 2012), Newcastle, UK; June 11–15, 2012, Reviewer |
| 2011 | IASTED International Conference on Telehealth (Telehealth 2012), Innsbruck, Austria, February 15 – 17, 2012, Reviewer |
| 2011 | ISDS 10th Annual Conference, International Society for Disease Surveillance, December 7-8, 2011, Atlanta, GA, Reviewer |
| 2011 | eHealth 2011, 4th International ICST Conference on Electronic Healthcare, November 21-23, 2011, Malaga, Spain, Reviewer |
| 2011 | SmartE workshop 2011, Smart Environments to Enhance Health Care, (PerCom2011),  March 21-25, 2011, Seattle, WA, Technical Program Committee Member |
| 2010 | eHealth 2010, 3rd International ICST Conference on Electronic Healthcare, Casablanca, Morocco, December 13-15, 2010, Reviewer |
| 2010 | IADIS International Conference on e-Health 2010, Freiburg, Germany, July 29-31, 2010, Program Committee Member |
| 2009 | IADIS International Conference on e-Health 2009, Algarve, Portugal, June 21-23, 2009, Program Committee Member |

**OTHER SERVICE ACTIVITIES**

Leadership Roles

|  |  |
| --- | --- |
| 2020-present | Member at Large, Ethical, Legal and Social Issues (ELSI) Working Group, American Medical Informatics Association |
| 2020-2021 | Scientific Program Committee Member, AMIA 2021 Annual Symposium, American Medical Informatics Association |
| 2018-2019 | Program Committee Member, Post-Acute Care Conference (NIA R13), Anschutz Medical Campus |
| 2017-2018 | Scientific Program Committee Member, AMIA 2018 Annual Symposium, American Medical Informatics Association |
| 2011-2013 | Informatics Co-Chair, Research Committee, International Society for Disease Surveillance |

Academic Service

|  |  |
| --- | --- |
| 2020-present | Chair, University of Missouri Sinclair School of Doctoral Faculty Search Committee |
| 2020-present | Member, University of Missouri Sinclair School of Nursing Executive Committee |
| 2020-present | Member, University of Missouri Sinclair School of Nursing Policy Committee |
| 2020-present | Member, University of Missouri Sinclair School of Nursing Budget Committee |
| 2020-present | Member, University of Missouri Sinclair Center for Healthy Aging Steering Committee |
|  |  |
| 2020 | Member, University of Missouri, Faculty Review Committee, Associate Vice Chancellor - Economic Development |
| 2019-present | Member, University of Missouri Institute for Data Science and Informatics PhD Education Committee |
| 2019-present | Member, University of Missouri Institute for Data Science and Informatics Data Science Education Committee |
| 2019-present | Member, University of Missouri Institute for Data Science and Informatics T15 Training Grant Advisory Committee |
| 2019-present | Designated Representative, AMIA Academic Forum for University of Missouri Institute for Data Science and Informatics |
| 2019-2020 | Member, University of Missouri Sinclair School of Doctoral Faculty Search Committee |
| 2014-2019 | Technical Director, Common Unified Patient Indicator Data (CUPID) project, Colorado Collaborative for Nursing Research (CCNR) |
| 2012 | Ethics Discussion Group Leader, Research Misconduct Sessions for Biomedical Research Integrity Series on Responsible Conduct of Research, University of Washington (July, 2012) |
| 2011-2013 | Human Subjects Review Committee Member, North Seattle Community College, Seattle, WA |
| 2010 | Student Sponsor, Student Technology Fee Proposal for Biomedical and Health Informatics I-Lab, University of Washington, successfully funded at $19,721.53 |
| 2010 | Graduate Student Member, Biomedical and Health Informatics Division Admissions Committee, University of Washington |
| 2009-2010 | Graduate Student Representative, Biomedical and Health Informatics Division Community Relations Committee, University of Washington |
| 2009-2010 | Senator, Biomedical and Health Informatics Division, Graduate and Professional Students Senate, University of Washington |

Community

|  |  |
| --- | --- |
| 2016 | Judge, VEX Robotics Competition regional tournament for high school and middle school teams, Lotus School of Excellence, Aurora, CO, January 30, 2016 |