

## **Iris Zachary, PhD, MS, FAMIA, ODS-C**

Director Missouri Cancer Registry and Research Center

Associate Research Professor

Department of Public Health

College of Health Sciences

University of Missouri

### **EDUCATION**

December 2012	Doctor of Philosophy Informatics Emphasis: Health Informatics MU Informatics Institute University of Missouri
December 2006	Master Health Informatics Department of Health Management and Informatics University of Missouri
March 1996	Bachelor Information Science University Stuttgart HBI, Stuttgart Germany

### **LICENSES & CERTIFICATIONS**

1998	ODS-C (CTR) Oncology Data Specialist Certified - Certified Tumor Registrar NCRA National Cancer Registrars Association
2021	ACUE Effective College Instruction Association of College and University Educators

### **CURRENT EMPLOYMENT**

2023-present	Associate Research Professor Department of Public Health, College of Health Sciences, University of Missouri
2022-present	MU Surgical Center for Outcomes Research and Effectiveness Department of Surgery, MU SCORE <a href="#">MUSCORE</a> School of Medicine, University of Missouri

2021-present	Core Faculty MU Institute for Data Science & Informatics, College of Engineering, University of Missouri
2023-present	Director Graduate Certificate for Informatics for Public Health, Department of Health Sciences, College of Health Sciences University of Missouri
2023-present	Director Missouri Cancer Registry and Research Center Department of Public Health, College of Health Sciences, University of Missouri
2023-present	Director Missouri Cancer Registry and Research Center Department of Public Health, College of Health Sciences, University of Missouri

**PREVIOUS EMPLOYMENT**

2021-2023	Associate Research Professor Health Management & Informatics, School of Medicine University of Missouri
2015-2023	Director Graduate Certificate for Informatics for Public Health Health Management & Informatics, School of Medicine University of Missouri
2020-2023	Director Missouri Cancer Registry and Research Center Department of Health Management and Informatics, School of Medicine, University of Missouri
2013-2020	Assistant Research Professor Health Management & Informatics, School of Medicine, University of Missouri
2002-2013	Assistant Database Manager, Statistician Missouri Cancer Registry and Research Center, School of Medicine, University of Missouri

1999-2002 Senior Cancer Data Coordinator,  
Missouri Cancer Registry and Research Center, School of  
Medicine, University of Missouri

1998-1999 Cancer Data Coordinator,  
Missouri Dept. of Health, Office of Surveillance, Research and  
Evaluation, Missouri Cancer Registry, Columbia, MO

1996-1998 Cancer Data Coordinator, Deaconess Health System, St. Louis, MO

1993-1994 Information Specialist,  
University Clinic of Ulm, Health Information and Research,  
Radiology Department, Ulm, Germany

## REFEREED JOURNAL ARTICLES

1. Jackson-Thompson J. **Zachary I.** Schmaltz C. Simoes EJ. Using Data Visualization and mapping software to enhance understanding and increase use of health-related data. *Asia-Pac J Clin Oncol* 2014, 10(Suppl. 9): 1-264, p181. DOI: 10.1111/ajco.12337
2. Jackson-Thompson J. Khan U. Schmaltz C. **Zachary I.** A Central Cancer Registry and a physician join forces to accelerate progress in understanding thyroid cancer. *Asia-Pac J Clin Oncol* 2014; 10(Suppl. 9): 1-264, p176; DOI: 10.1111/ajco.12337. ISSN Print: 1743-7555; Publication Date: 12/01/2014
3. **Zachary I.** Boren SA. Jackson-Thompson J. Simoes EJ. Davis W. Hicks L. Effective Information Management in Cancer Registries: Evaluating and Addressing the Needs for Cancer Research and Cancer Data Collection. *OJPHI*, 2015, Jul 1; 7(2):e213. [doi.org/10.5210/ojphi.v7i2.5664](https://doi.org/10.5210/ojphi.v7i2.5664)
4. Khosla N, **Zachary I.** Perspectives of HIV agencies on improving HIV prevention, treatment, and care services. *AIDS Care, Psychological and Socio-medical Aspects of Aids/HIV*, Vol. 28, 2016 – Issue 10. [doi.org/10.1080/09540121.2015.1124977](https://doi.org/10.1080/09540121.2015.1124977)
5. **Zachary I.** Jackson-Thompson J. Leary E. Simoes EJ. Addressing Health Equity through Data Collection and Linked Disease Surveillance. *OJPHI*, Vol 8, No.1, 2016. [doi.org/10.5210/ojphi.v8i1.6458](https://doi.org/10.5210/ojphi.v8i1.6458)
6. Esebua M, **Zachary I**, Khan U. MU-TNED: An electronic database focused on long-term study of thyroid nodules. *ACTA CYTOLOGICA*, Vol. 60, Suppl. 1, May 2016.
7. Benskin T. **Zachary I.** Esebua M. Khan U. Collaborations across disciplines: MU Thyroid Nodule Electronic Database (MU-TNED), a multidisciplinary informatics approach. 2017 IEEE International Conference on Bioinformatics and Biomedicine (BIBM) Dec 2017 Full Paper Proceedings [doi.org/10.1109/BIBM.2017.8217732](https://doi.org/10.1109/BIBM.2017.8217732)
8. Williams F. Oke A, **Zachary I.** Public health Delivery in the Information Age: The role of informatics and technology. *Perspectives in Public Health*, 136(5):236-254, 2019. [doi.org/10.1177/1757913918802308](https://doi.org/10.1177/1757913918802308)

9. Benskin T, **Zachary I\***, Esebua M, Khan U. MU Thyroid Nodule Electronic Database (MU-TNED), a multidisciplinary informatics approach to long-term thyroid nodule and thyroid cancer follow-up. *International Journal of Data Mining and Bio Informatics*, 21(1), 2018. [doi.org/10.1504/IJDMB.2018.095552](https://doi.org/10.1504/IJDMB.2018.095552) (\*Senior Corresponding Author)
10. Jefferson UT, **Zachary I**, Majee W. Employing a user-centered design to engage mothers in the development of a mHealth breastfeeding intervention. *CIN: Computers, Informatics, Nursing*, 7(10):522-531, 2019. [doi.org/10.1097/CIN.0000000000000549](https://doi.org/10.1097/CIN.0000000000000549)
11. Bouras A, Simoes EJ, Boren S, Hicks L, **Zachary I**, Buck C, Dhingra P, Ellis R. Mothers' willingness to share personal health data with researchers: Survey results from an opt-in panel. *J Medical Internet Research*, 12(2):e14062, 2020. [doi.org/10.2196/14062](https://doi.org/10.2196/14062)
12. Shawn D. **Zachary I\***. Khan U. Esebua M. The Association of body mass index and thyroid stimulating hormone levels with thyroid cancer among genders in the MU-Thyroid Nodule Electronic Database (MU-TNED). MU Digital Library. University of Missouri Collection. Proceedings Undergraduate research and Creative Achievements Forum Summer 2020
13. Bouras A. Simoes EJ. Boren S. Hicks L. **Zachary I**. Buck C. Dhingra S. Ellis R. Moore C. Wiehe S. Lynch D. Claxton G. Landman M. Carroll A. Musey P. Gordon D. Ford A. TriedmanN. Hart K. Perlis R. Higgins R. Hennessey M. Family C. Poduri A. Devinsky O. Tabacinic M. Jadad A. Advancing the understanding and practice of participatory medicine among health care professionals and patients. *Journal of Participatory Medicine*. Volume 12 (2020), Issue 2 ISSN: 2152-7202.
14. **Zachary I**. Leary E. Barriers to care for short- and long-term occurrences of non-specific psychological distress. *Public Health* 2021 Jul 8;196:198-200. DOI: [10.1016/j.puhe.2021.05.037](https://doi.org/10.1016/j.puhe.2021.05.037)
15. Bouras A, Simoes EJ, Buck C, Boren SA, Hicks L, **Zachary I**. Non-hispanic white mothers' willingness to share personal health data with researchers: survey results from an opt-in panel. *JMIR Journal of Participatory Medicine* Vol 12,2 e14062, 2020.
16. Anakwe A, Majee W, Noel-London K, **Zachary I**, BeLue R. Sink or swim: Virtual life challenges among African American families during COVID-19 lockdown. *Int J Environmental Res in Public Health*, 18(8):4290, 2021. [doi.org/10.3390/ijerph18084290](https://doi.org/10.3390/ijerph18084290)
17. Leary E. **Zachary**. Young N. Regional trends in health care expenditures, overall health outcomes, and non-specific psychological distress. *Community Mental Health Journal*, 1-9, 2021 <https://doi.org/10.1007/s10597-021-00882-x>
18. Jain N. **Zachary I**. Boren S. Who Influences Cancer Conversations on Twitter? A Comparative Surveillance of Cancer Communications. *MEDINFO 2021: One World, One Health – Global Partnership for Digital Innovation*. \*Student is 1<sup>st</sup> author. June 2021 DOI: [10.3233/SHTI220172](https://doi.org/10.3233/SHTI220172)
19. Jain N. **Zachary I**. Boren S. Who Influences Cancer Conversations on Twitter?: A Comparative Surveillance of Cancer Communications. *MEDINFO 2021: One World, One Health – Global Partnership for Digital Innovation*. \*student is 1st author. June 2022

DOI:10.3233/SHTI220172 PMID: 35673111 \*student is 1st author

20. Jain N, **Zachary I**, Boren SA. COVID-19 vaccine equity and health equity conversations on Twitter. AMIA Annual Symposium. New Orleans, LA, November 11-15, 2023. \*student is 1st author

21. Vogel, T. R., Bhayani, V., Schlesselman, C., Bath, J., & **Zachary, I.** (2023). Outcomes of Patients Admitted With COVID-19 Requiring Lower Extremity Interventions. *Journal of Vascular Surgery*, 77(6), e220.

22. Nkwanyana A. Matthews V. **Zachary I.** Bhayani V. Skills and competencies in health data analytics for health professionals: A scoping review protocol *BMJ Open* 2022. Manuscript ID bmjopen-2022-067919.

23. Camazine, M., Bhayani, V., Schlesselman, C., Bath, J., **Zachary, I.**, & Vogel, T. R. (2023). An Evaluation of Patients Admitted With Coronavirus Disease 19 Requiring Upper Extremity Vascular Revascularization. *Journal of Vascular Surgery*, 78(3), e49.

24. L. Ham. **I. Zachary.** Use of Project Management Tool for Increased Efficiency and Project Management in the Missouri Cancer Registry. *Journal of Registry Management* 50 (3), 97

25. Jain N. **Zachary I.** Boren S. COVID-19 Vaccine Equity and Diversity Conversations on X (Twitter) AMIA Symposium Proceedings 2024 2024 Jan 11;2023:997-1006. PMID: 38222403; PMCID: PMC10785937.

26. Camazine, M., Schlesselman, C., Bhayani, V., Bath, J., **Zachary, I.**, & Vogel, T. R. (2023). Retrograde Open Mesenteric Stenting Is Associated with Superior Outcomes for Acute Mesenteric Ischemia. *Journal of Vascular Surgery*, 78(3), e27-e28. Precision Public Health

27. Chelapareddy LR. Beheshti M. Naha K. **Zachary I.** Time to treatment initiation: An assessment of trends in delays in patients with lung cancer across Missouri. *Journal of Clinical Oncology* Volume 42, Number 16 Proceedings ASCO Annual Meeting supplement [https://doi.org/10.1200/JCO.2024.42.16\\_suppl.11186](https://doi.org/10.1200/JCO.2024.42.16_suppl.11186)

28. Jain NR, Poddar N, Boren SA, **Zachary I.** Unraveling the Complex Relationship Between Health Insurance Companies, Government Agencies, and Consumers in the Covid Era through a Social Network Analysis of X (Twitter) Conversations. 2024 AMIA Annual Symposium (Manuscript). San Francisco, CA. November 9-13, 2024. \*student is 1st author

29. Huang Y. Schlesselman C. **Zachary I.** Camazine M. Bath J. Vogel T. Disparities among Homeless Patients Undergoing Open Lower Extremities Bypass Procedures. *Journal of Vascular Surgery*. 80(3):e80-e81. DOI:10.1016/j.jvs.2024.06.134

30. Bhayani V. Nkwanyana A. Matthews V. **Zachary I.** Healthcare Data Analytics and Offerings for Healthcare Professionals Worldwide. *Health Informatics*. (Under review).

31. **Zachary I.** Schmaltz C. Ting X. Simoes EJS. The impact of screening on cancer incidence & mortality in MO, 2004 to 2020. *American Journal of Public Health* (in progress)

## ORAL REFEREED PRESENTATIONS (\*denotes mentor)

1. Ham L. **Zachary I.** Beheshti M. Jain N. Student Engagement through Internships and Volunteer Opportunities at the Missouri Cancer Registry and Research Center. NAACCR Annual Conference Boise, ID. June 26-28, 2024.
2. Beheshti M. Ham L. Schmaltz C. Hernandez J. **Zachary I\***. Automating the eMarc Plus Data Preprocessing Using Python to Enhance Cancer Surveillance. NAACCR Annual Conference Boise, ID. June 26-28, 2024. \*student is 1st author
3. Jain N. Beheshti M. Ham L. **Zachary I\***. Leveraging Multiple Social Media platforms and Network Analysis for Complementing Information from Central Cancer Registries. NAACCR Annual Conference Boise, ID. June 26-28, 2024. \*student is 1st author
4. Beheshti M. **Zachary I\***. Chelapareddy LR. Ham L. Schmaltz C. Hernandez J. Investigating The Disparities in Lung Cancer Treatment Delays in Missouri. Ellis Fischel Research Day April 30, 2024. University of Missouri, Columbia MO. \*student is 1st author
5. Jain N. **Zachary I\***. Boren SA. COVID-19 vaccine equity and health equity conversations on Twitter. AMIA Annual Symposium. New Orleans, LA, November 11-15, 2023. \*student is 1st author
6. Camazine M. Schlesselman C. Bhayani V. Bath J. **Zachary I.** Vogel TR. Retrograde Open Mesenteric Stenting is Associated with Superior Outcomes for Acute Mesenteric Ischemia. Midwestern Vascular Surgical Society. Sept 7-9, 2023 Minneapolis, MN.
7. Jain N. **Zachary I.** Boren S. Just the tip of the iceberg: Analyzing shifting temporal trends in COVID-19 vaccine equity & health disparities conversations on Twitter. AMIA CIC June 2023
8. Majee W. **Zachary I.** Mathews V. Community healthcare workers network, education, and integration. APHA Annual Meeting Boston, MA, November 6-9, 2022. (Session)
9. **Zachary I.** Mathews V. Bhayani V. Majee W. Healthcare data analytics learning environment access, challenges, and needs for community health workers and healthcare professionals. APHA Annual Meeting Boston, MA, November 6-9, 2022. (Session Organizer Zachary)
10. Mathews V. **Zachary I.** Majee W. Landscape of learning and teaching opportunities in health data analytics for health care professionals. APHA Annual Meeting Boston, MA, November 6- 9, 2022. (Session Organizer Zachary)
11. **Zachary I.** Becevic M. Rapid Telehealth Gaps, Barriers, and Opportunities. AUPHA Roundtable. June 5-7, 2022, Salt Lake City, Utah.
12. Jain N. **Zachary I\***. Boren SA. Social media listening of prescription-based mental health drug conversations on Twitter reveals disconnected participants during COVID-19 pandemic. Global Health Conference Midwest 2022. Omaha, NE. February 4-6, 2022. (Distinguished Poster Award – virtual category) \*student is first author.
13. **Zachary I.** The role of informatics in the response to COVID-19 pandemic. HEED Technology Panel, December9-10, 2021. 3rd Annual HBCUs Eradicating Economic & Health Disparities (HEEHD) Virtual Conference.

14. Shyu R. **Zachary I\***. Determinants of liver cancer: A geospatial and data mining approach. APHA Annual Meeting Denver, CO Oct 24-26, 2021.
15. Shyu R. **Zachary I\***. Determinants of Inequity and Liver Cancer. 2021 Posters on the Hill, Washington, DC virtual April 27-28, 2021.
16. Maroof R. **Zachary I\***. Meeting mental health needs through Peer-to-Peer support. APHA Annual Meeting Philadelphia, PA, Nov 2-6, 2019.
17. **Zachary I.** C Schmaltz. Jackson-Thompson J. Outcomes and monitoring of estrogen-related cancers in women. APHA Annual Meeting San Diego CA, November 10-14, 2018.
18. Alafaireet P. Boren SA. **Zachary I.** Inclusion and Participation in the Health Informatics Classroom: Structures and Activities Leading to Improved Learning Outcomes. HIMSS at AUPHA forum
19. Hancock Y. **Zachary I.** Bounds D. Julion W. Armstrong K. Tethering young children to resiliency: using wearable pediatric technology to decrease the long-term impact of stress exposure. APHA Annual Meeting San Diego CA, November 10-14, 2018.
20. **Zachary I.** C Schmaltz. J Jackson-Thompson. Examining subsequent occurrence and outcomes of estrogen-related cancers (Breast and Thyroid) in Missouri women. NAACCR Annual Conference Pittsburgh, PA. June 10-14, 2018.
21. Boren SA. **Zachary I.** Participation and Inclusion in the Classroom: Liberating Structures for Better Outcomes. Ignite Session. AMIA 2018 Informatics Educators Forum. New Orleans, LA. June 19-21, 2018.
22. Boren SA. **Zachary I.** The Flipped Informatics Classroom: Practices and Opportunities. Ignite Session. AMIA Inspire 2017. La Jolla, CA. June 6-8, 2017.
23. **Zachary I.** Boren SA. The Flipped Classroom: Practices and Opportunities. In-the- Round Session. AUPHA Annual Meeting 2017. Long Beach, CA. June 14-16, 2017.
24. Zachary I. J Jackson-Thompson. M Esebua. Completing the picture cancer registries and biobanks. APHA 2017 Annual Meeting Nov. 4 – Nov. 8, 2017 Atlanta, GA Health Informatics Information Technology
25. **Zachary I.** Esebua M. Jackson-Thompson J. Small changes big impacts through review of screening guidelines for women with primary cancers. APHA 2017 Annual Meeting Nov. 4 – Nov. 8, 2017 Atlanta, GA Health Informatics Information Technology
26. Jefferson UT. **Zachary I.** Majee W. (2017, October). Implementation of telehealth for postpartum breastfeeding support. University of Missouri Nursing Outreach 3<sup>rd</sup>Annual Perinatal Nursing Conference. Columbia, MO.
27. Benskin T. **Zachary I\***. Esebua M. Khan U. Collaborations across disciplines: MU Thyroid Nodule Electronic Database (MU-TNED), a multidisciplinary informatics approach. IEEE International Conference on Bioinformatics and Biomedicine BIBM. Kansas City Missouri Nov 13-16, 2017
28. Jackson-Thompson J. Schmaltz C. **Zachary I.** Ben Ramadan AA. Making data work for the public's health. APHA 2017 Annual Meeting Nov 4-8, 2017 Atlanta, GA Health Informatics Information Technology

29. **Zachary I.** Leary E. Esebua M. Khan U. Integration of various data and technologies into cancer control strategies to identify and study long-term treatment effects and outcomes of thyroid cancer (2016) World Cancer Congress Paris, France
30. **Zachary I.** Leary E. Jackson-Thompson J. Simoes EJ. The use of linked cancer surveillance data to aid monitoring and Management of Chronic Disease and Comorbidities (2016) World Cancer Congress Paris, France
31. **Zachary I.** Jackson-Thompson J. Simoes EJ. Yemane S. (2015) Meaningful data and public health policy. Presentation. Annual Meeting American Public Health Association, Chicago, IL.
32. Jackson-Thompson J. Schmaltz C. **Zachary I.** (2015) Creating profiles for cancer in Missouri by state senatorial district. Presentation Annual Meeting American Public Health Association, Chicago, IL.
33. **Zachary I.** Jackson-Thompson J. Schmaltz C. Simoes EJ. (2014) Interactive mapping of leukemia in Missouri. Presentation Annual Meeting American Public Health Association, New Orleans, LA.
34. Jackson-Thompson J. **Zachary I.** (2014) How Meaningful Use stage 3 can impact progress one central cancer registry has made in Meaningful Use stage 2. Presentation Annual Meeting American Public Health Association, New Orleans, LA.
35. Jackson-Thompson J. **Zachary I.** Schmaltz C. Maintaining patient confidentiality while constructing customizable public use data maps, graphs and tables. Annual Meeting of the International Association of Cancer Registries, Ottawa, Ontario, Canada: 26 - 28 June 2014.
36. Jackson-Thompson J, **Zachary I.** Simoes EJ. (2014) How central cancer registry informatics and information technology (HIIT) systems can benefit other APHA sections. Presentation Annual Meeting American Public Health Association, New Orleans, LA.
37. **Zachary I.** Jackson-Thompson J. Schmaltz C. Headd A. Simoes EJ. (2014) Challenges and opportunities for cancer registries with Meaningful Use stages 2 and 3. Presentation Annual Meeting of the North American Association of Central Cancer Registries, Ottawa CA.
38. Jackson-Thompson J. Khan U. Schmaltz C. **Zachary I.** Simoes EJ. A central cancer registry and a physician join forces to accelerate progress in understanding thyroid cancer. UICC World Cancer Congress. Melbourne, Australia: 3 – 6 December 2014.
39. **Zachary I.** Jackson-Thompson J. Simoes EJ. Yemane S. (2013) Think globally, act locally: How central cancer registries can be a resource for other disease registries and surveillance activities. Presentation Annual Meeting APHA, Boston MA
40. Headd A. Jackson-Thompson J. **Zachary I.** Cole N. (2013) Achieving increased cancer reporting from clinicians to public health: A local success with global implications. Presentation Annual Meeting APHA, Boston MA
41. **Zachary I.** Jackson-Thompson J. Boren SA. Simoes EJ. King MJ. (2012). Using Information Technology to increase the application and use of cancer registry data. World Cancer Congress UICC Toronto, Canada

42. **Zachary I.** Cole N. Jackson-Thompson J. Headd A. (2012). Innovations in information technology: Storing, integrating and using data. Presentation Annual Meeting APHA San Francisco, CA

## POSTER REFEREED PRESENTATIONS

1. Jain N. **Zachary I\***. Boren S. Consumer Healthcare Informatics: Insights from Biomedical & Pharmaceutical Digital Dialogues, 2024 Nexus Informatics Conference, Kansas City.
2. Jain N. Boren S. **Zachary I\***. Visualization of COVID-19-associated Mucormycosis Web on 'X': A Tale of social media, Government and Media responses AMIA Symposium 2024.
3. Carey D. Ham L. Beheshti M. **Zachary I.** Using Available Resources to Streamline the Casefinding Audit Process. North American Association of Central Cancer Registries Annual Meeting NAACCR June 2024, Boise Idaho.
4. Jain N. **Zachary I.** Boren S. Utilizing Social Media and Generative AI for Rare Cancer Information: Completing Existing Resources. Ellis Fischel Cancer Research Day University of Missouri, Columbia, 04/30/2024.
5. Carey D. Ham L. Schmaltz C. **Zachary I.** Trends, Treatments, and Outcomes of Hematopoietic and Lymphoid Cancer. Ellis Fischel Cancer Research Day University of Missouri, Columbia, 04/30/2024.
6. Ham L. Schmaltz C. **Zachary I.** Hernandez J. Childhood Cancer Incidence in Missouri: Analysis from 2004-2020. Ellis Fischel Cancer Research Day University of Missouri, Columbia, 04/30/2024.
7. Jain N. **Zachary I\***. Boren S. Pandemic Resonance: Unveiling the Social Symphony of Health Insurance on X (Twitter) - A SNA Exploration Amidst COVID Chaos American Medical Informatics Association Clinical Informatics Conference 2024.
8. Schmaltz C. Bhayani V. Ham L. Hernandez J. **Zachary I.** Monitoring cancer in central MO. Ellis Fischel Cancer Research Day University of Missouri, Columbia, 04/30/2024.
9. Bhayani, V. Schmaltz C. Ham, L. Hernandez J. **Zachary I.** Cervical cancer – a snapshot from incidence to prevention in Missouri. Ellis Fischel Cancer Research Day University of Missouri, Columbia, 04/30/2024.
10. Schlesselman CT. Randolph J. **Zachary I.** Meller T. Sales A. Vogel T. Development and Evaluation of a Novel Hospital Discharge Smartphone Application for Vascular Surgery Patients. Academic Surgical Congress February 6-8, 2024. Washington DC.
11. Jain N. **Zachary I\***. Bhayani V. Boren S. Public Dashboard for Central Cancer Registries (CCR) Websites & Social Media Analysis & feeds for State wise Cancer, COVID19 & Co-morbidities Ellis Fischel Cancer Center Cancer Research Day & Retreat 2023 (Awarded third place poster).

12. Akter S. Ham L. **Zachary I.** Quality Audit on Coding Laterality at Missouri Cancer Registry and Research Center (MCR) AMIA 2023 Informatics Summit March 13-16, 2023
13. Nkwanyana A. Mathews V. **Zachary I.** Identifying the skills and competencies in health data analytics for health professionals: A scoping review. PHASA 2022 Conference, Durban South Africa September 11-14, 2022.
14. Jain N.\*. Bhayani V. **Zachary I.** Development of a publicly available dashboard for websites and social media channels of Central Cancer Registries (CCRs) with live feeds for cancer and #COVID19 posts. North American Association of Central Cancer Registries (NAACCR) Summer Forum Conference, June 2022
15. Jain N. **Zachary I.\*.** Boren SA. Social media listening of prescription-based mental health drug conversations on Twitter reveals disconnected participants during COVID-19 pandemic. Global Health Conference Midwest 2022. Omaha, NE. February 4-6, 2022. (Distinguished Poster Award – virtual category)
16. R.Shyu\*, **Zachary I.** Determinants of Inequality and liver cancer. Poster on the Hill Washington DC, Virtual Poster Presentation. 2021 Poster Session, April 28, 2021. \*Student is first author.
17. Jain N. **Zachary I.\*.** Boren S. Social network analysis of Twitter conversations about widely prescribed psychiatric drugs (Global Health Conference Midwest, Feb 2021, Research poster, Awarded best Virtual Poster).
18. Ham, L. **Zachary I.** Jain N. National Program of Cancer Registries Success Story: Use of Project Management Tool for Increased Efficiency and Project Management in the Missouri Cancer Registry. NCRA 2022 Annual Meeting April 6-9, 2022.
19. V Bhayani\*. **Zachary I.** N Sowers. Analyzing Omaha system with Public Health EHR for social and behavioral determinants from public health for healthcare using CHAMP Software and Nightingale Notes. AMIA Annual Symposium 2020
20. D Shawn\*. **Zachary I.** U Khan. M Esebua. Association of Body Mass Index and Thyroid Stimulating Hormone Levels with Thyroid Cancer Among Genders in MU-TNED (MU-Thyroid Nodule Electronic Database) The Annual Biomedical Research Conference of Minorities ABRCMS 2020
21. **Zachary I.** R Maroof. Q Collins. Informatics for Public Health (IPH) Collaboration and Partnership Initiative. APHA Annual Meeting Philadelphia, PA, Nov 2-6, 2019.
22. R Shyu\*. **Zachary I.** T Haithcoat. Compiling a Chemical Exposure Framework to Assess Population Exposure Risk. APHA Annual Meeting Philadelphia, PA, Nov 2-6, 2019.
23. R Shyu\*. **Zachary I.** T. Haithcoat. Benzene Exposure, Leukemia, and Non-Hodgkin's Lymphoma in a Spatial Context, in North American Association of Central Cancer Registries (NAACCR) and International Association of Cancer Registries (IACR) Combined Conference, Vancouver, British Columbia, Canada, June 2019.
24. **Zachary I.** SA Boren. EJ Simoes. Informatics for Public Health – how academia and public health can partner to strengthen public health infrastructure and achieve excellence. APHA Annual Meeting, San Diego, CA November 10-14, 2018.

25. U Jefferson. **Zachary I.** Improving access to breastfeeding support services using mHealth. APHA Annual Meeting, San Diego, CA November 10-14, 2018.
26. F Williams. **Zachary I.** Public health informatics and quality care delivery: What is the way forward? APHA Annual Meeting, San Diego, CA November 10-14, 2018.
27. **Zachary I.** SA Boren. EJ Simoes. Informatics for Public Health: How academia and public health can partner to strengthen public health infrastructure and achieve excellence. American Public Health Association 2018. San Diego, CA. November 10-14, 2018.
28. Boren SA, **Zachary I.** Inclusion and Participation in the Classroom: Liberating Structures for Better Outcomes. AUPHA Annual Meeting 2018. Philadelphia, PA. June 12-15, 2018.
29. SA Boren. **Zachary I.** S Nielson. Linking Topics to Practice: Top 10 List for End of Semester Reflection. AMIA Inspire 2017. La Jolla, CA. June 6-8, 2017.
30. **Zachary I.** SA Boren. S Nielson. Linking Topics to Practice: Top 10 List for End of Semester Reflection. AUPHA Annual Meeting 2017. Long Beach, CA. June 14-16, 2017.
31. SA Boren. **Zachary I.** S Nielson. Credible and Professional Presentations: Discussion Activity to Engage Students as Speakers. AUPHA Annual Meeting 2017. Long Beach, CA. June 14- 16, 2017.
32. **Zachary I.** Jackson-Thompson J. M Esebua. Biorepositories and cancer registries - the perfect match. NAACCR Annual Meeting Albuquerque, NM June 17-23, 2017.
33. SA Boren. **Zachary I.** S Nielson. Credible and professional presentations: Discussion activity to engage students as speakers. Poster session at: 5<sup>th</sup> Annual MU Health Innovation and Improvement Sharing Days; 2017 May 2-4; Columbia, MO.
34. **Zachary I.** SA Boren. S Nielson. Linking Topics to Practice: Top 10 list for end of semester reflection. Poster session at: 5th Annual MU Health Innovation and Improvement Sharing Days; 2017 May 2-4; Columbia, MO.
35. **Zachary I.** SA Boren. W Phillips. Reading Leadership: Improving Participation in an Introduction to Health Informatics Course. AMIA 2016 Symposium Proceedings. Chicago, IL; November 12-16, 2016.
36. SA Boren. **Zachary I.** Pre and Post Knowledge Self-Assessment: Analysis of Students in an Introduction to Health Informatics Course. AMIA 2016 Symposium Proceedings. Chicago, IL; November 12-16, 2016.
37. **Zachary I.** U Khan. M Esebua. (2016). Missouri Thyroid Nodule Electronic Database MU- TNED long-term study of thyroid nodules in REDCap. Annual Meeting NAACCR, June 2016 St. Louis, MO
38. SA Boren. **Zachary I.** Pre and post knowledge self-assessment in a flipped classroom: Analysis of students in an introduction to health informatics course. AMIA InSpire 2016 Academic Forum Conference. Columbus, OH. June 28-30, 2016.

39. **Zachary I.** SA Boren SA. W Phillips. Reading Leadership: Opportunities to Increase Discussion among Students in an Introduction to Health Informatics Course. AUPHA Annual Meeting 2016. Kansas City, MO. June 22-24, 2016. \*Awarded 1st place among 40 posters
40. Yemane S. **Zachary I.** N Rold. Jackson-Thompson J. Global updates script library to use for data quality control. NAACCR St Louis, 2016 accepted.
41. Padron W\*. Jackson-Thompson J. A Martin. S Yemane. **Zachary I.** Student to the rescue: processing pathology (Path) lab files at a central cancer registry (CCR) (2015)
42. **Zachary I.** Jackson-Thompson J. EJ Simoes. (2015) Data analytics and cancer data: meaningful cancer data presentation. Poster presentation NAACCR Annual Meeting Charlotte, NC.
43. **Zachary I.** Jackson-Thompson J. Schmaltz C. EJ Simoes. (2014) Increasing awareness of colorectal and rectal cancer in younger age groups is needed. IARC Annual Meeting, Ottawa.
44. Jackson-Thompson J. **Zachary I.** Schmaltz C. Maintaining patient confidentiality while constructing customizable public use data maps, graphs and tables. Annual Meeting of the International Association of Cancer Registries, Ottawa, Ontario, Canada: 26 - 28 June 2014.
45. **Zachary I.** Jackson-Thompson J. SA Boren. L Hicks. (2013) Evaluating and addressing the needs for Central Cancer Registry (CCR) data collection. Poster presentation NAACCR Annual Meeting Austin, TX
46. **Zachary I.** Jackson-Thompson J. A Headd. N Cole. (2013). Capturing, storing, integrating and using electronic health record (EHR) data at a Central Cancer Registry. Poster presentation NAACCR Annual Meeting, Austin TX.
47. **Zachary I.** Jackson-Thompson J. SA Boren. EJ Simoes. MJ King. Using information technology to increase the application and use of cancer registry data. 2012 World Cancer Congress. Montreal, Canada. August 27-30, 2012.
48. **Zachary I.** Jackson-Thompson J. SA Boren. N Cole. Public health surveillance and research: Evolution of the Cancer Registry Data Set, NAACCR 2012 Annual Conference. Portland, OR. June 2-8, 2012. (Awarded second place in the student poster presentation competition).
49. N Cole. **Zachary I.** Jackson-Thompson J. MJ King. Finding the path to becoming a survival cancer registry. 2012 Annual Conference of the North American Association of Central Cancer Registries, Portland, OR: 5 – 7 June 2012.

## INTRAMURAL ABSTRACTS/POSTERS/PRESENTATIONS

1. **Zachary I.** Jackson-Thompson J. SA Boren. N Cole. Public health surveillance and research: Evolution of the Cancer Registry Data Set. Missouri Informatics Symposium '12. October 22- 23, 2012. \*Student is 1st author
2. SA Boren. **Zachary I.** S Shankar. Pre and Post Knowledge Self-Assessment Analysis among Students in an Introduction to Health Informatics Course. Poster session at: 4th Annual MU Health Innovation and Improvement Sharing Days; 2016 May 3-5; Columbia, MO.
3. **Zachary I.** SA Boren. W Phillips. S Nielson. S Shankar. Reading Leadership: Opportunities to Increase Discussion among Students in an Introduction to Health Informatics Course. Poster session at: 4th Annual MU Health Innovation and Improvement Sharing Days; 2016 May 3-5; Columbia, MO.
4. SA Boren. **Zachary I.** S Nielson. Credible and Professional Presentations: Discussion Activity to Engage Students as Speakers. Poster session at: 5th Annual MU Health Innovation and Improvement Sharing Days; 2017 May 2-4; Columbia, MO.
5. **Zachary I.** SA Boren. S Nielson. Linking Topics to Practice: Top 10 List for End of Semester Reflection. Poster session at: 5th Annual MU Health Innovation and Improvement Sharing Days; 2017 May 2-4; Columbia, MO.
6. UT Jefferson. **Zachary I.** W Majee. (2017, September). Patient-Centered Technology to Support Breastfeeding. University of Missouri Center for Patient-Centered Outcomes Research Seminar Series. Columbia, MO.
7. **Zachary I.** SA Boren. D Moxley. EJ Simoes. Graduate Certificate in Informatics for Public Health. Poster session at: 6th Annual MU Health Innovation and Improvement Sharing Days; 2018 May 1-3; Columbia, MO.
8. U Khan. M Esebua. U Khan. **Zachary I.** Too many Thyroid Nodules? Let's talk to Power Chart. University of Missouri Ellis Fischel Grand Rounds. October 12, 2018.
9. **Zachary I.** S Boren. EJ Simoes. Informatics for Public Health – how academia and public health can partner to strengthen public health infrastructure and achieve excellence. Education Day MU February 7, 2019.
10. D Shawn. U Khan. **Zachary I.** M Esebua. Data Quality and Validation Of MU-TNED (MU- Thyroid Nodule Electronic Database) Focus on Completeness of Data for Age, Gender, BMI, And Nature of Thyroid Nodules. MU SOM Health Science Research Day 2019.
11. SA Boren. **Zachary I.** Inclusion and Participation in the Classroom: Liberating Structures for Better Outcomes. University of Missouri School of Medicine Education Day. Columbia, MO. September 5, 2019.
12. **Zachary I.** SA Boren. EJ Simoes. Informatics for Public Health: How academia and public health can partner to strengthen public health infrastructure and achieve excellence. University of Missouri School of Medicine Education Day. Columbia, MO. September 5, 2019.

13. D Shawn. **Zachary I\***. U Khan. M Esebua. The Association of Body Mass Index and Thyroid Stimulating Hormone Levels with Thyroid Cancer Among Genders in the MU-Thyroid Nodule Electronic Database (MU-TNED). 2020 Summer Undergraduate Research & Creative Achievements Forum.
14. D Shawn. **Zachary I\***. U Khan. M Esebua. The Association of Body Mass Index and Thyroid Stimulating Hormone Levels with Thyroid Cancer Among Genders in the MU-Thyroid Nodule Electronic Database (MU-TNED) Summer 2020- Undergraduate and Creative Achievements Forum
15. Akter S. Ham L. **Zachary I\***. Quality Audit on Coding Laterality. MU Institute of Data Science and Informatics Symposium August 18-19, 2022, University of Missouri.
16. NR Jain., MS, MHA; **Zachary I**, PhD, CTR; S Boren, MHA, PhD. Analysis of Cancer and other Chronic Disease Conversations on Twitter during COVID-19 Pandemic. Ellis Fischel Health Science Research Day May 9, 2023. (3rd price Poster)
17. NR Jain., MS, MHA; **Zachary I**, PhD, CTR; S Boren, MHA, PhD. Analysis of Cancer and other Chronic Disease Conversations on Twitter during COVID-19 Pandemic. Ellis Fischel Health Science Research Day May 9, 2023. (3rd price Poster)
18. N Jain, MS, MHA. V Bhayani, MSHI. **Zachary I**, PhD, CTR. Public Dashboard for Central Cancer Registries (CCR) Websites and Social Media with State-wise Cancer & COVID19 Twitter Feeds. Missouri Cancer Registry and Research Center. Ellis Fischel Health Science Research Day May 9, 2023.
19. L Ham. Schmaltz C. Long K. Phillips M. Belenchia A. Garikapaty V. **Zachary I**. COVID-19 and the Cancer Patient. Ellis Fischel Health Science Research Day May 9, 2023.
20. Jain NR. Bhayani V. **Zachary I**. Boren SA. Unlocking Insights: Public Dashboard for Central Cancer Registries (CCR) Websites & Social Media Analysis & feeds for Statewide Cancer, COVID19 & Comorbidities. Ellis Fischel Cancer Center Basic Science Retreat. November 3, 2023.
21. Jain NR. **Zachary I**. Boren SA. Unveiling COVID-19-associated Mucormycosis Web on “X” Twitter: A Tale of Social Media, Government, and Media Responses in India. MUIDSI Symposium. October 2-3, 2023. First place poster.

## RESEARCH ACTIVITIES

### Current Research Support

#### Zachary (PI)

06/30/2024-06/29/2025

Centers for Disease and Control and Prevention (CDC) National Program of Cancer Registries (NPCR)

AOC18380167 - 03, Missouri Department of Health and Senior Services (MDHSS) Missouri Cancer Registry

The purpose of this project is to provide ongoing support for surveillance activities associated with state-mandated Missouri Cancer Registry, as well as meet the goals and objectives of Centers for Disease and Control and Prevention (CDC) National Program of Cancer Registries (NPCR).

**Role: Principal Investigator**

#### Zachary (PI)

06/30/2024-06/29/2025

Centers for Disease and Control and Prevention (CDC) Public Health Infrastructure Data Modernization

Missouri Department of Health and Senior Services (MDHSS) Missouri Cancer Registry

The purpose of this project is to provide funds for the development of the Public Health Data Infrastructure.

**Role: Principal Investigator**

#### Zachary (PI)

06/30/2023-06/29/2024

Centers for Disease and Control and Prevention (CDC) National Program of Cancer Registries (NPCR)

AOC18380167 - 02, Missouri Department of Health and Senior Services (MDHSS) Missouri Cancer Registry

The purpose of this project is to provide ongoing support for surveillance activities associated with state-mandated Missouri Cancer Registry, as well as meet the goals and objectives of Centers for Disease and Control and Prevention (CDC) National Program of Cancer Registries (NPCR).

**Role: Principal Investigator**

**Zachary (PI)**

01/01/2022-08/29/2024

Faculty Exchange Grant Recipient UMC MU

University of Missouri I. Zachary University of Western Cape V. Mathews

The purpose of this project is to collaborate on development of health data analytics for health professionals.

**Role: Principal Investigator****Zachary (PI)**

06/01/2021-

04/30/2028 NIH/ National Cancer Institute

NCI

Surveillance, Epidemiology, and End Results (SEER) Program MO MCR Research Registry The purpose of the National Cancer Institute (NCI) Surveillance Epidemiology and End Results (SEER) Program is to assemble annual estimates of cancer statistics that pertain to incidence, prevalence, and patient survival; monitor trends to identify important changes in cancer rates for population subgroups defined by geographic, demographic, and social characteristics; provide information on changes over time in stage of disease at diagnosis and types of therapy, as well as associated changes in cancer patient survival; carry out special studies that provide insight into trends in cancer rates, treatment patterns, and other relevant aspects of cancer control; and provide an infrastructure to support cancer research through its data.

**Role: Principal Investigator****Haithcoat (PI)**

05/01/2022-04/30/2024

Environmental Health Challenge: Developing a Midwest Nitrogen Health Risk Landscape

The purpose of this study is to develop a nitrogen risk landscape for Missouri using a compilation of geospatial data layers assessing potential risks from contamination associated with agricultural practices and rural areas.

**Role: Co-Investigator****Zachary (PI)**

03/01/2021- ongoing

North American Association of Cancer Registries

Virtual Pooled Registry VPR

The goal of this study Coordinated by the North American Association of Cancer Registries (NAACCR) with funding from the National Cancer Institute, the VPR-CLS provides a single location to facilitate timely access to and use of high-quality cancer surveillance data for minimal risk linkage studies. Additional VPR-CLS goals are to provide resources for ongoing registry participation in VPR-CLS linkages and facilitate inter-registry case de-duplication and identification of multiple primaries.

**Role: Principal Investigator**

**Previous Research Support**

**Zachary (PI)**

01/01/2023-09/30/2022

Rutgers Young Melanoma Survivor  
Project AOC18380166 - 05, Rutgers MU

The purpose of this project is to contact eligible young melanoma participants to screen for interest and eligibility for the Rutgers Melanoma project.

**Role: Principal Investigator**

**Zachary (PI)**

06/30/2022-06/29/2023

Centers for Disease and Control and Prevention (CDC) National Program of Cancer Registries (NPCR)

AOC18380167 - 01, Missouri Department of Health and Senior Services (MDHSS) Missouri Cancer Registry

The purpose of this project is to provide ongoing support for surveillance activities associated with state-mandated Missouri Cancer Registry, as well as meet the goals and objectives of Centers for Disease and Control and Prevention (CDC) National Program of Cancer Registries (NPCR).

Role: Principal Investigator

Student Support: Yes 2 students

**Zachary (PI)**

06/30/2021-06/29/2022

Centers for Disease and Control and Prevention (CDC) National Program of Cancer Registries (NPCR)

AOC18380166 - 05, Missouri Department of Health and Senior Services (MDHSS) Missouri Cancer Registry

The purpose of this project is to provide ongoing support for surveillance activities associated with state-mandated Missouri Cancer Registry, as well as meet the goals and objectives of Centers for Disease and Control and Prevention (CDC) National Program of Cancer Registries (NPCR).

**Role: Principal Investigator**

Student Support: Yes 1 student

**Zachary (PI)**

06/30/2020-06/29/2021

Centers for Disease and Control and Prevention (CDC) National Program of Cancer Registries (NPCR)

AOC18380166 - 04, Missouri Department of Health and Senior Services (MDHSS) Missouri Cancer Registry

The purpose of this project is to provide ongoing support for surveillance activities associated with state-mandated Missouri Cancer Registry, as well as meet the goals and objectives of Centers for Disease and Control and Prevention (CDC) National Program of Cancer Registries (NPCR).

**Role: Principal Investigator**

Yes 1 student

**Zachary (PI)**

01/15/2018-

12/31/2020 Mizzou Online

Informatics for Public Health Graduate Certificate

A Graduate Certificate Program in Public Health Informatics will be developed to further meet the growing demand for professional education and development in the field of public health informatics. Student will gain a basic knowledge of issues in public health informatics and competence in evaluating and discovering solutions for the current and future public health informatics challenges. The goal of this project is to develop and apply public health informatics in the field of public health including the development of a graduate certificate of informatics for public health to further meet the growing demand for professional education and development in the field of public health informatics.

**Role: Principal Investigator**

Student Support: Yes 1 student

**Zachary (PI)**

06/01/2020-10/01/2020

Battelle Memorial Institute, Center for Disease Control and Prevention, Division of Toxicology Camp LeJeune Incidence Study

Informatics for Public Health Graduate Certificate

The goal of this study is to compare cancer incidence between the CL and Camp Pendleton cohorts. A retrospective cohort study using cancer incidence data and additional years of follow-up for cause of death data will be conducted. The primary research question is whether personnel at CL experience higher cancer incidence than personnel at Camp Pendleton, and whether cancer incidence increases with increasing exposure to the drinking water contaminates.

**Role: Principal Investigator****Shawn (Student)/ Zachary (Mentor) (PI)** 06/01/2020-

07/31/2020 Cherng Summer Scholars Program Honors College

University of Missouri

Association of BMI and TSH with Differentiated Papillary Thyroid Cancer, and Correlation with Gender

This project focuses on investigating the association between TSH, BMI, and the risk of thyroid cancer among males and females in the MU-Thyroid Nodule Electronic Database (MU-TNED), that includes patients with nodular thyroid disease. This project is an expansion of MU-TNED (funded 2015) to investigate the association between TSH, BMI and Thyroid nodules supported by the MU Honors College Cherng Summer Scholars.

**Role: Shawn, Donia (Student Investigator) PI Zachary (Mentor /Faculty Advisor)**

Student Support: Yes 1 student

**Zachary (PI)**

06/30/2019-06/29/2020

Centers for Disease and Control and Prevention (CDC) National Program of Cancer Registries (NPCR)

AOC18380166 - 03, Missouri Department of Health and Senior Services (MDHSS) Missouri Cancer Registry. The purpose of this project is to provide ongoing support for surveillance activities associated with state-mandated Missouri Cancer Registry, as well as meet the goals and objectives of Centers for Disease and Control and Prevention (CDC) National Program of Cancer Registries (NPCR).

**Role: Principal Investigator**

Student Support: Yes 1 student

**Jefferson (PI)**

06/01/2016-

08/31/2017 Research Council

Patient Engagement for Technology Use in Breastfeeding Support Intervention

The goal of this study was to develop, and test acceptability of a mobile website entitled 'Mother's Milk Connection' that provides comprehensive support to breastfeeding mothers after discharge home from the hospital.

Role: Co-Investigator

**Deroche (PI)**

01/01/2016-12/31/2017 (extended 12/31/2018)

Population Health Education Center RDC (<https://coas.missouri.edu/center/mu-research-data-center>) Mental Health Disorders and Comorbid Conditions in Adolescents and Adults

The goal of this study was to investigate relationships between mental health disorders and comorbid conditions in adolescents and adults.

Role: Co-Investigator

**Jefferson (PI)**

01/01/2016-

06/30/2017 MU-PCOR R24HS022140

Patient-Centered Technology to Support Breastfeeding: Mobile Website Development

The goal of this study was to develop and test acceptability of a mobile website, Mother's Milk Connection, that provides comprehensive support to breastfeeding mothers after discharge home from the hospital.

Role: Co-Investigator

**Zachary (PI)**

07/31/2015-

07/30/2016 Ellis Fischel Research Funding

Utilization of REDCap to Develop a Comprehensive Thyroid Nodule Database.

The goal of this study was to develop a thyroid nodule repository that allows for clinical longitudinal studies and translational and quality improvement projects.

Role: Principal Investigator

## TEACHING ACTIVITIES

<u>Year</u>	<u>Location</u>	<u>Course Title</u>
2020-2025	MU 8545	Methods for Public Health Informatics/ Biostatistics (Course IPH)
2019-2025	MU 7431	Foundations of Public Health Informatics Grad Online IPH Informatics for Public Health (Course Developed IPH)
2018-2025	MUIDSI	8088 Lab Rotation
2019-2022	MU 4950H	Undergraduate Capstone Project Honors
2018-2022	MU 2950H	Undergraduate General Honors
2018-2024	MU 8453	EMS Graduate Study (Residential MHA)
2016-2025	MU 8090	HMI Thesis Research
2016-2024	MU 8451	Management Executive Studies
2015-2016	MU 8550	Health Data Analytics (Course Developed 8550)
2014-2019	MU 7430	Introduction to Health Informatics (Executive and Residential)

## Invited Guest Lectures and Presentations

2017-2019	Introduction to Public Health Informatics Columbia College, PA Program
2017-2020	Introduction to Public Health Informatics and MICA, 2019 Stephens College
2019-2020	Juxtopia HBCUs Eradicate Economic and Health Disparities (HEEHD) Conference 2019 and 2020 Missouri Connected Communities to address Health Disparities, December 12-13, 2019, Baltimore MD
2020	MO Connected Communities to address Health Disparities. Invited talk, University of Michigan March 2020
2023	Public Health Informatics. Academic Forum Professional Master's Educators Community. October 16, 2023
2020	UMKC Cancer Informatics 2020
2020	MUIDSI Cancer Surveillance Informatics 2020
2021	UMKC Public Health Informatics 2021
2021	Invited Guest lecture June 2021 KU Frontiers
2021	Invited Presentation December 2021 HEEHD 3 <sup>rd</sup> Annual Conference

2022 HEED Moderator 4<sup>th</sup> Annual Conference  
 2022 NextGEN EFFC Invited Guest Lecture  
 2022 Invited UICC World Cancer Leader Summit Boston 2022  
 2022-2025 University of Missouri Kansas City UMKC  
 Invited Guest Lecture March annually  
 "Public Health Informatics"  
 UMKC Medical Informatics Seminar (MEDB 5520)

## RELATED PROFESSIONAL SERVICE

### Editorial and Refereeing Responsibilities (Reviewer and Editor)

BMC British Medical Journal

JAMIA Journal of the Medical Informatics Association

Cancer Journal

AJPH Journal of the American Public Health Association

AMIA American Medical Informatics Association

NAACCR North American Association of Central Cancer Registries

IJPH International Journal of Public Health

IJHI International Journal of Health Informatics

JMIR Journal of Medical Internet Research

IEEE International EEE

2014, 2015, 2017, 2019	BMC Cancer 14:933. doi:10.1186/1471-2407-14-933.
2014-2015, 2017, 2020 24	JAMIA, BMJ
2022-24	Frontiers Public Health Digital Health
2016	JMIR Journal for Medical Internet Research
2016	IJHI Jour of Int. Health Informatics, IJPH, JMIR
2017	Sage Open
2018	IEEE
2019-22	BMC, JMIR, IEEE
2020	Elsevier, JAMIA
2020	International Journal of Public Health (IJPH), <b>Editorial Board</b>
2021	Cancer, JMIR, IEEE, AMIA, APHA
2022	JMIR, APHA, Cancer Medicine
2023-24	International Public Health, Frontiers, AJPH, Cancer Informatics
2023-24	<b>Review Editor:</b> Digital Public Health Frontiers and Reviewer Frontiers Public Health

## **National/ Regional Association Positions/ Conference/ Abstract/ Proposal Reviewer**

2010 - 2013	NAACCR Semantic Data Workgroup 2014 - 2019 NAACCR National IRB Board (Appointed)
2014	American Public Health Association APHA, New Orleans  2014, Judge HIIT & Academic Public Health Caucus
2017 - 2019	BIBM IEEE Annual Meeting Abstract Reviewer
2017 - 2020	APHA Annual Meeting Abstract Reviewer
2017 - present	AMIA Women Leadership Workgroup
2021 - present	NAACCR Strategic Planning Workgroup
2022 - 2023	APHA HIIT Annual Meeting Program Planning 2022 - 2024  APHA HIIT Governing Council
2022-2024	Washington University Siteman Cancer Center Member
2022-2024	Missouri Cancer Consortium MCC Data Committee Chair
2024	Union of International Cancer Control Technical Fellowship Reviewer
2023	NAACCR Certification Evaluation and Recommendation TF
2024	NAACCR CIAG

## **HONORS AND AWARDS**

<b>Date</b>	<b>Award/Honor</b>	<b>Organization/ Agency</b>
2014	MU University Faculty Scholar	University of Missouri System UMFS
2015	PCORI (MU-PCOR) Award	Travel Award
2016	AUPHA Poster Award	AUPHA First Place
2016	Faculty Interdisciplinary Development	Award Mizzou Advantage
2017	Tracy Hilliard HIIT Chairs Award for Outstanding Leadership Service Award	APHA American Public Health HIIT
2020	MU Ann K. Covington Mentor Award	MU Missouri Honors College
2022	UMSAEP Faculty Exchange Award	UWC MU Hosted Dr. Mathews UWC
2022	Exemplary Outstanding Leadership Award	APHA American Public Health HIIT
2023/24	FAMIA Fellow of the American Medical Informatics Association	AMIA
2024	APHA HIIT Leadership Award	HIIT Program 2024

## **OTHER MONETARY AWARDS**

2011	NIH University of MO Graduate School Professional Travel Fellowship 2011
2015	PCORI Workshop Travel Funds 2015
2016	Poster Award AUPHA 2016
2017	Interdisciplinary Faculty Development Award
2017	APHA HIIT Chair's Outstanding Leadership Award 2017
2022	APHA HIIT Exemplary Outstanding Leadership Award 2022
2024	HIP High-Impact Course Development University of Missouri Faculty Workshop June 2024

## **DEPARTMENT / UNIVERSITY / SCHOOL SERVICE**

### **Departmental-Level Service Activities**

2015	Ph.D. Informatics Curriculum Committee, 2015
2016	NTT Research Guideline Review
2017	Teaching Curriculum Committee, 2016
2018	Hosted Exhibition Booth at MOPHA Informatics for Public Health IPH Certificate
2018- 2021	School of Medicine Research Council
2019	Exhibition at APHA American Public Health Association IPH Certificate
2020-23	SOM HMI Leadership Team
2023-2024	Student Affairs Committee DPH

## **Division / College Service School of Medicine/ College of Health Sciences**

2014-2017	Health Science Research Day Judge University of Missouri
2015-2016	SOM Health Management and Informatics Research Committee
2016-2018	SOM Health Management and Informatics, NTT Guidelines Committee
2016-2018	MU WIMMS Committee
2018-2021	University of Missouri School of Medicine Research Council
2020	MU SOM Grant Writing Workshop (Presenter: Specific Aims)
2020/21	MU SOM TRIUMPH Reviewer (2)
2020-2023	HMI Leadership Team
2023-2024	Student Affairs Committee Department of Public Health, College of Health Sciences

### **MU University – Wide Service Activities**

2012, 2015, 2016	MUII Informatics Symposium Abstract Reviewer
2016-2018	Judge for the 33rd Annual Research and Creative Activities Forum RCFA
2018	UMFS 2018 Roundtable Panel University Faculty Scholars
2020 2021	MU Undergraduate Research & Creative Achievements Forum
2018-2022	MU Library Committee
2020-2024	MU Hearing Panel Title IX
2023-2024	MU Vice Provost for Libraries Provost Search Committee

### **Inclusion and Equity Activities**

2014-2017	WIMMS Annual Workshop
2016	Diversity Lecture Michael Hosakawa “Looking like the Enemy” 4/27/2018 2017 Webinar “Disability and Diversity” 8/14/2018
2018	Celebration of Teaching Diversity Lecture 2019 Dr. Stephen Brookfield April 5, 2019 2019 Christy Lemak, PhD Leaders influencing health policy: Racial and ethnic diversity in leadership. Health Admin Forum June 2019
2019	Diversity & Inclusion in the New Era of Healthcare. Missouri Chapter of the American College of Healthcare Executives. August 21, 2019.

- 2019 AUPHA Annual Meeting: Undergraduate Session – Bridging Diversity Gaps in Health Care. Virtual Meeting June 4, 2020
- 2019-2024 IMSD-EXPRESS (Exposure to Research for Science Students) Undergraduate Research Program 2019-2020 (MU IMSD-EXPRESS Program aims to promote excellence and diversity in the sciences)
- 2020-2021 University of Missouri and Division of Inclusion, Diversity & Equity. Virtual Panel Progress towards inclusive excellence. SOM Series: Confronting Racism 7/16/2020
- 2022 DEI Speaker Honorarium HEEHD 2022
- 2022 Social Determinants, Health Disparities, Cultural Humility: How can we do better? Laura E. Henderson Kelly, MD, MPH January 13, 2022

## PROFESSIONAL ORGANIZATIONS

### Memberships and Positions in Professional Organizations

1998-present	Member	National Cancer Registrar's Association NCRA
2009-2016, 2020-present	Member	American Medical Association AMIA
2009-present	Executive Board Member	American Public Health Association APHA Executive Board
2012-present	Member	American Academic Public Health Caucus
2009-present	Member	North American Association of Central Cancer Registries NAACCR
2015-2020	Judge	APHA Academic Public Health Caucus
2016-present	Member	AUPHA
2016-2023	Member	HIMSS
2022-2024	Executive Board	APHA HIIT Governing Councilor
2021-present	Board Member	APHA HIIT Lead Program Co-Chair
2024-present	Technical Reviewer	Union of International Cancer Control UICC Fellowship Program
2024-present	Mentoring Chair	National Association of Chronic Disease Directors

## PROFESSIONAL DEVELOPMENT ACTIVITIES

- 2014-2021 Celebration of Teaching University of Missouri
- 2018 Online Teaching Foundations, Educational Technologies University of Missouri
- 2017 Health Information Technology: Healthcare Data Analytics, Department of Medical Informatics & Clinical Epidemiology, Oregon Health & Science University Spring, March-May 2017
- 2021 ACUE Online Teaching Certification 2021
- 2022 Next Gen Clinical Trial Investigator Training Certificate
- 2022 UICC Master Course Cancer Control Survival
- 2022 Mentoring at Mizzou MU Mentor workshop Aug 1-5, 2022
- 2023 ASHE Mid-career Faculty Workshop January 2023
- 2024 HIP High-Impact Course Development University of Missouri Faculty Workshop June 2024

### **Association of College and University Educators ACUE**

This certificate signifies completion of a 25-module course in effective teaching practices requiring the implementation of evidence-based instructional approaches. The credential is co-issued by the American Council on Education and distinguishes faculty for their commitment to educational excellence and student success.

### **KEY WORDS**

Health Informatics, Public Health Informatics, Cancer Registration, Secondary Data Analysis, Disease Data Collection, Translational Science, Cancer Surveillance and Research, Social Determinants of Health, Health Disparities, Connected Communities, Cancer Informatics