

**Elizabeth UMBERFIELD, PhD, RN**  
Postdoctoral Research Fellow, Public & Population Health Informatics  
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## EDUCATION AND TRAINING

08/2020-present	NIH/NLM Postdoctoral Training in Biomedical Informatics and Data Science Public and Population Health Informatics Training Program Fairbanks School of Public Health, Indiana University and Regenstrief Institute, Indianapolis, IN
08/2020	PhD, Nursing University of Michigan, School of Nursing, Ann Arbor, Michigan
05/2020	Certificate: Education in Nursing University of Michigan, School of Nursing, Ann Arbor, Michigan
12/2013	Bachelor of Science in Nursing Saginaw Valley State University, University Center, Michigan

## CERTIFICATION AND LICENSURE

Pending	Registered Nurse, Indiana
2014-present	Registered Nurse, Department of Licensing and Regulatory Affairs: Michigan #4704303498

## ACADEMIC, ADMINISTRATIVE, AND CLINICAL APPOINTMENTS

08/2020-present	Postdoctoral Research Fellow, Public and Population Health Informatics Training Program, Fairbanks School of Public Health and Regenstrief Institute, Indiana University, Indianapolis, IN (5T15LM012502-04) Co-PIs: B. Dixon and T. Schleyer
Winter 2020	Graduate Student Instructor, University of Michigan School of Nursing, Ann Arbor, MI
Summer 2018	Research Associate, University of Michigan Institute of Social Research, Ann Arbor, MI <i>bioCADDIE (1U24A1117966-01); Supervisor: George Alter</i>
2016-2020	Graduate Student Research Assistant, University of Michigan School of Nursing, Ann Arbor, MI <u><i>Selected Projects:</i></u> <ul style="list-style-type: none"><li>- <i>Metadata Applications on Informed Consent to Facilitate Biorepository Data Regulation and Sharing (5U01HG009454-03); Supervisor: Marceline Harris</i></li><li>- <i>Videotaping Communication Between Physicians and Nurses: A Methods Study (1R03HS024760-01); Supervisor: Milisa Manojlovich</i></li></ul>
2014-2020	Registered Nurse, Michigan Medicine: Neurosurgery Intensive Care Unit, Ann Arbor, MI
2014	Writing in Nursing Educator, Saginaw Valley State University Writing Center, University Center, MI
2013	Nurse Extern, MidMichigan Health: Neuro/Trauma Intensive Care Unit, Midland, MI
2012-2013	Nurse Extern, MidMichigan Health: Neuro/Medical General Care Unit, Midland, MI
2011	Intern, MidMichigan Health: Health Information Management, Midland, MI
2010-2013	Writing Mentor, Saginaw Valley State University Writing Center, University Center, MI

## RESEARCH INTERESTS

- Health Information Exchange
- Ontologies and Standards
- Advance Care Planning
- Informed Consent
- Biospecimen and Health Information Reuse

## GRANTS AND FUNDING

- 10/2019 University of Michigan, Rackham Graduate Student Research Grant  
07/2016-12/2019 Robert Wood Johnson Foundation, Future of Nursing Scholars Predoctoral Fellowship (Institutional-Training Grant)

## HONORS AND AWARDS

- 2021 Midwest Nursing Research Society; Health Systems, Policy, and Informatics Research Interest Group; *Dissertation Award*  
2020 Midwest Nursing Research Society, *Distinguished Abstract Award*  
2014 Saginaw Valley State University, *Outstanding Graduate Award*, Awardee from the Crystal M. Lange College of Health & Human Services  
2012 Saginaw Valley State University, *Braun Writing Award*, Awardee from the Crystal M. Lange College of Health & Human Services  
2011-2012 Saginaw Valley State University, *Roberts Fellow*  
2009-2013 Saginaw Valley State University, *Foundation Scholar*  
2009-2013 Saginaw Valley State University, *President's Award (Full Tuition Scholarship)*

## MEMBERSHIPS IN PROFESSIONAL SOCIETIES

- 2019-present American Medical Informatics Association  
Nursing Informatics Working Group  
2019-present Sigma Theta Tau International, Rho Chapter  
2016-present Midwest Nursing Research Society  
Health Systems, Policy, & Informatics Interest Group  
2016-2019 AcademyHealth  
Interdisciplinary Research Group on Nursing Issues  
2016-2019 American Academy for Communication in Healthcare  
2013-2014 Sigma Theta Tau International, Theta Chi chapter  
2011-2013 Student Nurses Association, Saginaw Valley State University Chapter

## EDITORIAL POSITIONS, BOARDS, AND PEER-REVIEW SERVICE

- 2020 Medical Care, Manuscript Reviewer  
2020 Journal of Biomedical Informatics, Manuscript Reviewer  
2020 Midwest Nursing Research Society; Health Services, Policy, and Informatics Awards Committee, Reviewer  
2020 American Medical Informatics Association, Nursing Interests Working Group, Ad Hoc Awards Committee, Reviewer  
2019-present Applied Clinical Informatics, Manuscript Reviewer  
2019 MedInfo 2019, Assistant Editor  
2017 Journal of Nursing Management, Manuscript Reviewer

## COMMITTEE, ORGANIZATIONAL, AND VOLUNTEER SERVICE

- 2019 American Medical Informatics Association, Annual Symposium, Student Volunteer  
2019 University of Michigan School of Nursing, PhD Advisory Committee Member  
2018-2020 University of Michigan School of Nursing, PhD Program Peer Seminar, Secretary  
2018 YpsiFest, Stroke Detection and Prevention Volunteer  
2017 ResearchTalk, Seminar on Data Integration and Mixed Methods Research, Student Ambassador  
2016-2019 Restore Church, Meal Train and Community Volunteer  
2015-2016 Michigan Medicine Neurosurgery ICU, AACN Beacon Award for Excellence Application, Co-author and Lead Editor  
2015-2016 Michigan Medicine Neurosurgery ICU, Magnet Ambassador and Unit-Based Committee Member  
2014-2016 Michigan Medicine Neurosurgery ICU, Difficult Conversations Committee, Chair

## TEACHING

### Undergraduate (\*\*online format, \*hybrid format)

<u>Course</u>	<u>Cr</u>	<u>Short Title</u>	<u>Format</u>	<u>Role</u>	<u>Term</u>	<u>Enrollment</u>
NURS 454/2	2	Leadership & Mngmt	Discussion*	Instructor	Win 2020	12
NURS 454/7	2	Leadership & Mngmt	Discussion*	Instructor	Win 2020	12

### Graduate (\*\*online format, \*hybrid format)

<u>Course</u>	<u>Cr</u>	<u>Short Title</u>	<u>Format</u>	<u>Role</u>	<u>Term</u>	<u>Enrollment</u>
NURS-R 601	3	Instruments & Measurement	Lecture**	Guest Lecturer	Sp 2021	8
DENT-R 978	3	Intro Hlth Info Tech in Dent	Lecture**	Guest Lecturer	Fa 2020	8
HS 612	3	Eval Meth for Hlth Infrmtcs	Seminar	Assistant	Fa 2018	6

### Workshops (\*\*online format, \*hybrid format)

<u>Course</u>	<u>Short Title</u>	<u>Format</u>	<u>Role</u>	<u>Term</u>	<u>Enrollment</u>
APA Lecture Series	Introduction to APA Style and Format	Recording**	Instructor	2014-	Open Access
APA Lecture Series	APA: The Basics	Recording**	Instructor	2014-	Open Access
APA Lecture Series	APA: In-Text Citations	Recording**	Instructor	2014-	Open Access
APA Lecture Series	APA: Using Tables and Figures	Recording**	Instructor	2014-	Open Access
APA Lecture Series	APA: Appendices	Recording**	Instructor	2014-	Open Access

## MENTORING

<u>Dates</u>	<u>Student</u>	<u>Mentor Role</u>	<u>Topic or Title</u>
2017	Crist, Kaycee	UG Honors Program Grad Mentor	<u>Mentored Award:</u> <i>Bachelor's in Nursing Scholarship; Oncology Nursing Society</i>
2015	Smith, Asa B.	UG Clinical Preceptor	Neurosurgical Critical Care

## VISITING PROFESSORSHIPS, SEMINARS, AND EXTRAMURAL INVITED PRESENTATIONS

### Invited Presentations

01/2020	<i>PhD Programs in Nursing: What You Should Know &amp; Why I am Pursuing a PhD as an Early-Career Nurse</i> , University of Michigan, School of Nursing, Honors Program Symposium
2015	<i>Difficult Conversations Project</i> , Michigan Medicine Unit-Based Committee (4A, 4D) Meetings and Charge Nurse Workdays

### Extramural Invited Presentations

01/2017	<i>Evaluating a Qualitative Study</i> , National Nursing Practice Network, Journal Club
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## BIBLIOGRAPHY

### In Preparation

1. **Umberfield, E.,** Hickman, S., & Schleyer, T. *Advance Directives Should be FAIR: The Case for Interoperable Advance Directives.*

## Under Review

1. **Umberfield, E.**, Jiang, Y., Kardia, S., Thomer, A., & Harris, M. R. (Under Review). *Regulations and Norms for Reuse of Residual Clinical Biospecimens and Health Data*. Western Journal of Nursing Research.
2. **Umberfield, E.**, Jiang, Y., Fenton, S., Stansbury, C., Ford, K., Crist, K., Kardia, S., Thomer, A., & Harris, M. R. (Under Review). *Development and Testing of an Annotation Scheme for Identifying Permissions within Clinical Consent Forms*. Applied Clinical Informatics
3. **Umberfield, E.**, Stansbury, C., Ford, K., Jiang, Y., Kardia, S. L. R., Thomer, A., & Harris, M. R. (Under Review). *Evaluating the Informed Consent Ontology for Coverage of Permissions to Reuse Residual Clinical Biospecimens and Health Data*. Applied Ontology.
4. Crist, K., Lafferty, M., **Umberfield, E.**, & Manojlovich, M. (Under Review). *What Factors Contribute to Shared Understanding Between Physicians and Nurses in Inpatient Oncology Care? A Qualitative Exploration*. Cancer Nursing.

## In Press

1. Smith, A.B., **Umberfield, E.**, Granner, J., Harris, M., Liestenfeltz, B., Shuman, C., & Smith, E. (In Press). *Development of the Collaboration for Innovation in Mentoring Survey: An Instrument of Nursing PhD Mentorship Quality*. Nurse Education Today.
2. Rosa, W., Hartley, K., Hassmiller, S., Bennet, S., Breen, K., Frisch, S., Goldberg, J., Koschmann, K., Missel, A., Parekh de Campos, A., Pho, A., Rausch, J., Schlak, A., Shook, A., Tierney, M., **Umberfield, E.**, Fairman, J. (In Press). *Considerations, Strategies, and Recommendations for Adopting a Three-Year Nursing PhD Model from a Cohort of the Robert Wood Johnson Foundation Future of Nursing Scholars*. Journal of Nursing Education.

## Published Peer-Reviewed Manuscripts

1. **Umberfield, E.**, Ghaferi, A., Krein, S., & Manojlovich, M. (2019). *Using Incident Reports to Assess Communication Failures and Patient Outcomes: A Mixed-Methods Approach*. The Joint Commission Journal on Quality and Patient Safety. Retrieved from <https://doi.org/10.1016/j.jcjq.2019.02.006>
2. Vajda, J. A., Otte, J. N., Stansbury, C., Harris, M. R., **Umberfield, E.**, Manion, F. J., & Tao, C. (2019). *Expanding the Representation of Permissions and Deontic Roles in the Informed Consent Ontology (ICO)*. AMIA Annual Symposium Proceedings. Retrieved from <https://knowledge.amia.org/69862-amia-1.4570936/t006-1.4574499/t006-1.4574500/3203440-1.4574537/3203440-1.4574538>
3. Vajda, J. A., Otte, J. N., Stansbury, C., Manion, F. J., **Umberfield, E.**, He, Y., ... Tao, C. (2018). *Coordinated Evolution of Ontologies of Informed Consent*. Proceedings of the 9th International Conference on Biological Ontology (ICBO 2018). Retrieved from <http://ceur-ws.org/Vol-2285/>
4. Manojlovich, M., Frankel, R. M., Harrod, M., Heshmati, A., Hofer, T., **Umberfield, E.**, & Krein, S. (2019). *Formative Evaluation of the Video Reflexive Ethnography Method, as Applied to the Physician–Nurse Dyad*. BMJ Quality & Safety. Retrieved from <http://dx.doi.org/10.1136/bmjqs-2017-007728>

## ABSTRACTS

### Accepted

1. **Umberfield, E.** & Harris, M. (Under Review). *Towards Methods for Bridging Expressions of Nursing Knowledge to Machine-Interpretable Formats*. Midwest Nursing Research Society Annual Conference; March 2021.

### Presented

1. **Umberfield, E.**, Jiang, Y., & Harris, M. *Towards a Computable Resource for Representing Regulations and Norms for Secondary Use of Residual Clinical Biospecimens*. Podium presentation at Midwest Nursing Research Society Annual Conference; April 2020; Shamburg, IL.

2. **Umberfield, E.** *Getting Back on Track: Returning to a PhD Program after a Leave of Absence*. Panelist for “PhD in Three: The Lived Experience” at Midwest Nursing Research Society Annual Conference; April 2020; Shamburg, IL.
3. Harris, M., **Umberfield, E.**, & Jiang, Y. *Methods for Ontology Evaluation: Informed Consent Ontology (ICO) as an Example*. Podium presentation at Midwest Nursing Research Society Annual Conference; April 2020; Shamburg, IL.
4. Jiang, Y., **Umberfield, E.**, Zhang, H., & Harris, M. *A Review of Clinical Text Annotation to Support EHR Data Reuse*. Poster at Midwest Nursing Research Society Annual Conference; April 2020; Shamburg, IL.
5. **Umberfield, E.**, Stansbury, C., & Harris, M. *Modelling Permissions and Obligations for Reuse of Biospecimens and Data Derived from Clinical Procedures*. Poster presented at Midwest Nursing Research Society Annual Conference; March 2019; Kansas City, MO.
6. Stansbury, C., Katschor, D., **Umberfield, E.**, Landis-Lewis, Z., & Harris, M. *Semiotic Frameworks and The Quality of Health-Related Data*. Poster presented at Michigan Institute for Data Science Symposium; October 2018; Ann Arbor, MI.
7. **Umberfield, E.**, Ghaferi, A., Krein, S., & Manojlovich, M. *Communication failures and patient outcomes: Context and conceptualization matter*.
  - a. Podium presentation at the International Conference for Communication in Healthcare; October 2017; Baltimore, MD.
  - b. Poster presented at Midwest Nursing Research Society: 2017 Annual Research Conference; April 2017; Minneapolis, Minnesota.
8. **Umberfield, E.** *Effective Communication Between Nurses and Physicians as the Development of Shared Understanding: A Scoping Literature Review*. Podium presentation at International Conference for Communication in Healthcare; October 2017; Baltimore, MD.
9. Manojlovich, M., **Umberfield, E.**, Krein, S., & Ghaferi, A. *Identifying and Classifying Communication Failures: Developing Methods to Reduce Communication-Related Incidents*. Podium presentation at Academy Health Annual Research Meeting; June 2017; New Orleans, LA.

## TECHNOLOGY

1. The Informed Consent Ontology. (Release: August 27, 2020). [Ontology]. OBO Foundry. <https://github.com/ICO-ontology/ICO>