

Caitlin Dreisbach, PhD, RN

Assistant Professor

School of Nursing and Goergen Institute for Data Science and Artificial Intelligence

University of Rochester

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EDUCATION

PhD	University of Virginia , Charlottesville, Virginia Doctor of Philosophy, Nursing	2020
MSDS	University of Virginia , Charlottesville, Virginia Master of Science, Data Science	2018
BSN	The Johns Hopkins University , Baltimore, Maryland Bachelor of Science, Nursing	2013
BS	Cornell University , Ithaca, New York Bachelor of Science, Biology and Society, Communication	2012

POSTDOCTORAL TRAINING

Columbia University , New York, New York Data Science Institute Postdoctoral Fellows Program Mentors: Suzanne Bakken, PhD, RN, FAAN, FACMI and Noémie Elhadad, PhD	2020-2022
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PROFESSIONAL APPOINTMENTS

Assistant Professor (Tenure-Track) , University of Rochester , School of Nursing, Rochester, New York	2022-present
Affiliated Faculty , University of Rochester , Goergen Institute for Data Science and Artificial Intelligence, Rochester, New York	2022-present
Adjunct Faculty , University of Rochester , School of Nursing, Rochester, New York	2021-2022
Instructor , University of Virginia , School of Data Science, Charlottesville, Virginia	2021-2022
Instructor , University of Iowa , College of Nursing, Iowa City, Iowa	2016-2022
Pre-doctoral Student , University of Virginia , School of Nursing, Charlottesville, Virginia	2015-2020

RESEARCH EXPERIENCE

Data Science Institute at Columbia University, New York, New York

Postdoctoral Research Scientist, July 2020 – June 2022

- Developing data science tools to enhance the patient experience in labor and delivery.
- Investigate and integrate social justice issues into data and algorithmic considerations.
- Participating in departmental seminars and symposiums while critically engaging in the research of mentoring faculty.

Trinchieri Lab, National Cancer Institute, Bethesda, Maryland

Special Volunteer, September 2018 – September 2020

- Aid in the development of metagenomic computational pipelines for data processing and analysis.
- Collect and transport human microbiome samples from a University of Virginia Medical Center collaboration to inform the lab's mouse model research.

Cogit Analytics, Charlottesville, Virginia

Lead Clinical Consultant, February 2019 – January 2020

- Inform operations and development for a data-driven algorithm to increase efficiency in nursing workforce staffing.
- Attend monthly executive meetings and report on leading trends in data science methodologies.

Presidential Fellowship in Data Science, Data Science Institute, Charlottesville, Virginia

Co-Principal Investigator and Data Science Fellow, May 2017 – May 2020

- Create an interdisciplinary team with the Department of Psychology, School of Medicine and the School of Nursing to optimize bio-banked data from a pregnancy cohort sample.
- Interested in understanding the role of the maternal factors in changes in the newborn microbiome.

Alhusen/Siega-Riz Lab, School of Nursing, University of Virginia

Clinical Research Coordinator, January 2016– September 2019

- Oversee planning and implementation of a randomized controlled intervention study on mindful eating to reduce gestational weight gain.
- Process biological samples for immune biomarker research during pregnancy.
- Manage institutional review board and funding/grant approvals.

Center for Public Health Genomics, University of Virginia, Charlottesville, Virginia

Data Analyst, January 2018 – March 2019

- Performed data modeling, network analysis and functional enrichment pipelines on clinically relevant datasets.
- Utilized cloud computing and advanced research infrastructure to perform big data genomic tasks relevant to cardiovascular disease.
- Attended weekly seminars in cardiovascular disease and genomics.

Data Science Institute/University of Virginia Brain Institute, Charlottesville, Virginia

Data Scientist, Computational Neuroimmunology Capstone, August 2017 – August 2018

- Integrated single cell RNA-sequencing data from high-impact published research.
- Built an unsupervised computational algorithm to identify cell type from scRNA-seq expression data.
- Identified cellular functions that are associated with neurological processes.

University of Virginia Professional Nursing Staff Organization, Charlottesville, Virginia

Principal Investigator, Research Mentor Program, August 2013 – May 2018

- Developed a clinical research protocol to investigate the perception of psychological trauma during childbirth.
- Collaborated with School of Nursing and Medical Center to create nurse-led research on The Women's Place.
- Encouraged staff nurse participation in research activities on the unit.

TRAININGS AND WORKSHOPS

Penn Implementation Science Institute, University of Pennsylvania, Philadelphia, Pennsylvania. June 24-27, 2025. [Virtual].

AI for Clinical Medicine, Harvard University, Boston, Massachusetts. June 12-13, 2025. [Virtual].

National Institute of Nursing Research Artificial Intelligence Boot Camp, Bethesda, Maryland, June 2-3, 2025. [Virtual].

The Data and AI Intensive Research with Rigor and Reproducibility (DAIR³), University of Michigan and Jackson State University, Jackson, Mississippi. July 28-August 2, 2024.

National Workshop on Data Science Education, University of California, Berkeley, Berkeley, California. June 19-23, 2023.

National Institute of Nursing Research Artificial Intelligence Boot Camp, Bethesda, Maryland, August 3-6, 2020. [Virtual due to the COVID-19 pandemic].

Summer Institute for Statistical Genetics (SISG). University of Washington, Seattle, Washington. July 15-27, 2018.

National Institute of Nursing Research Summer Genetics Institute (SGI). Bethesda, Maryland. June 1-30, 2016.

CLINICAL EXPERIENCE

University of Rochester Medical Center, Strong Memorial Hospital, Rochester, New York	2024-present
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Registered Nurse Clinician (per diem), 3-1200 High-Risk Antepartum

- Provide high-quality medical and obstetric nursing care to pregnant, postpartum, and women's surgical patients.
- Escalate safe patient care to interdisciplinary teams in labor and delivery or operating room when necessary.

University of Virginia Health System, Charlottesville, Virginia	2014-2020
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Registered Nurse Clinician 2 (per diem), Labor and Delivery

- Provided safe patient care during pregnancy, labor and delivery, recovery, and early newborn care.
- Circulated scheduled, unscheduled, and emergent cases in the operating room.
- Communicated with interdisciplinary team (physicians, residents, midwives) to provide patient-centered care.

Registered Nurse Clinician 2 (per diem), Pediatric Float Pool, Staffing Resource Office

- Served the Women's and Children's hospital based on imminent staffing needs.
- Rotated between labor and delivery, postpartum/antepartum unit, neonatal intensive care unit, and acute pediatrics based on nurse staffing.

Registered Nurse Clinician 2, The Women's Place (TWP)

- Integrated care for increasingly complex patients of various cultural backgrounds.
- Lead committee for expansion of evidenced-based research into clinical practice for inpatient women's services.

Registered Nurse Clinician I, The Women's Place (TWP)

- Provided safe patient care to women and newborns from antepartum to postpartum.
- Rotated and gain skills through labor and delivery, postpartum with women's medical-surgical patients including the operating room and recovery.
- Completed Nurse Residency Program including monthly meetings with new nurses across hospital.
- *Evidenced-based project: Pain Treatment after Newborn Circumcision.*

The Johns Hopkins Hospital, Baltimore, Maryland

2013

Clinical Nurse Extern (Certified Nursing Assistant), Weinberg 4C (Surgical Oncology)

- Performed essential technician skills including vital signs, intake and output measurement, and surgical and post-operative care.
- Provided general patient care including bathing, ambulation, and emotional support.

GRANT SUPPORT AND FUNDING

External Competitive Grant Funding

Mentored Research Scientist Development Award K01

\$475,866

2022-2025

Sponsor: National Institute of Health, National Institute of Nursing Research (NIH/NINR)

K01NR020504

Role: Principal investigator

Title: Neural network approach to estimate fetal weight in the late third trimester of pregnancy

All of Us University of Arizona-Banner Health's Driver Project

\$21,282

2024-2025

Sponsor: National Institutes of Health, UArizona-Banner Health

Role: Consultant (key personnel)

Title: Maternal health in *All of Us*: Understanding the antecedents of maternal morbidity and the associations with health disparities

All of Us Research Program Mini-Grant

\$14,000

2023-2024

Sponsor: Association of American Colleges of Nursing (AACN)

OT2OD028404

Role: Co-I

Title: Maternal heart rate during pregnancy as a predictor of adverse complications within 1-year postpartum

**Ruth L. Kirschstein National Research Service Award (NRSA)
Individual Predoctoral Fellowship**

\$85,104

2018-2020

Sponsor: National Institute of Health, National Institute of Nursing Research (NIH/NINR)

F31NR017821-01A1

Role: Principal investigator

**2018 March of Dimes Margaret Comerford Freda "Saving Babies,
Together®" Award**

\$5,000

2018-2019

<i>Sponsor: Association for Women's Health, Obstetric, and Neonatal Nurses (AWHONN)</i> <i>Role: Principal investigator</i> <i>Title: Leveraging data science to examine the influence of maternal obesity on the association between microbial function and impaired glucose tolerance during pregnancy</i>	\$20,000	2018-2020
Dannon Yogurt, Probiotics and the Gut Microbiome Fellowship Grant <i>Sponsor: Danone North America</i> <i>Role: Co-principal investigator</i> <i>Title: Mothers, Infants, Microbiome and Mental Health (MIMMs): A social neuroscience perspective of maternal-child health to unlock the potential of biobanked data</i>		
<u>Internal Competitive Grant Funding</u> University of Rochester Transdisciplinary Research Institute <i>Sponsor: University of Rochester</i> <i>Role: Co-investigator (co-lead of the Data Core)</i> <i>Title: University of Rochester Resilience Research Center (UR3C)</i>	\$2,000,000	2025-2030
GIDS-AI Seed Funding <i>Sponsor: Goergen Institute for Data Science and Artificial Intelligence, University of Rochester</i> <i>Role: Principal investigator</i> <i>Title: Fetal weight estimation using ultrasound video from low-risk pregnancies: A prospective study</i>	\$30,000	2025-2026
School of Nursing Research Support Grant <i>Sponsor: School of Nursing, University of Rochester</i> <i>Role: Principal investigator</i> <i>Title: Phenome-wide association study of symptom variability across the reproductive health lifespan</i>	\$18,320	2025-2026
School of Nursing Research Support Grant <i>Sponsor: School of Nursing, University of Rochester</i> <i>Role: Principal investigator</i> <i>Title: Maternal heart rate during pregnancy as a predictor of adverse complications within 1-year postpartum</i>	\$5,000	2023-2024
Health Sciences Center for Computational Innovation Pilot Grant <i>Sponsor: University of Rochester</i> <i>Role: Principal investigator</i> <i>Title: Using neural networks to advance the estimation and prediction of fetal weight to improve assessment, clinical decision making and labor planning</i>	\$33,144	2022-2023
Columbia University School of Nursing Intramural Grant <i>Sponsor: Columbia University School of Nursing</i> <i>Role: Principal investigator</i>	\$10,000	2021-2022

Title: Using natural language processing to discover COVID-19 impacts on birthing families from social media	\$10,000	2020-2021
Precision in Symptom Self-Management (PriSSM) Center (P30) Pilot Grant Award		
<i>Sponsor: National Institute of Health, National Institute of Nursing Research (NIH/NINR)</i>		
Role: Principal investigator		
Title: Clustering and validation of COVID-19 symptom phenotypes for Hispanic/Latina women.	\$28,000	2017-2018
Presidential Fellowship in Data Science		
<i>Sponsor: Data Science Institute and Office of Postdoctoral Affairs, University of Virginia</i>		
Role: Co-principal investigator		
Title: Mothers, Infants, Microbiome and Mental Health (MIMMs): A social neuroscience perspective of maternal-child health to unlock the potential of biobanked data		
Jonas Nurse Leader Scholar Fellowship	\$10,000	2016-2018
<i>Sponsor: Jonas Center</i>		
Role: Principal investigator		
<u>Mentored Competitive (Internal and External) Grant Funding</u>	\$5,000	2023
The Schwartz Discover Research Grant		
<i>Sponsor: Office of Undergraduate Research, University of Rochester</i>		
Role: Mentor (Mentee: Carol Li)		
Title: Mapping contraceptive prescribing patterns: Understanding individual decision-making and provider practices		

TEACHING

University of Rochester, School of Nursing, Rochester, New York	2023-present
Co-Course Coordinator, On-Campus Clinical Coordinator	
<i>NURS 374A: Nursing Care and Health Promotion for Childbearing Clients and Their Families</i> (Fall 2023, Spring 2024, Summer 2024, Spring 2025, Fall 2025 undergraduate)	
<i>NURS 374AOL: Nursing Care and Health Promotion for Childbearing Clients and Their Families</i> (Fall 2025, online undergraduate)	
University of Rochester, Goergen Institute for Data Science, Rochester, New York	2023-present
<i>DS 395: Independent Study</i> (Fall 2023, Fall 2025, undergraduate)	
<i>DS 495: Master's Research</i> (Spring 2024, Spring 2025, graduate)	
<i>DS 483: Data Science Capstone/Practicum</i> (Fall 2024, Spring 2025, graduate)	
University of Rochester, School of Medicine and Dentistry, Rochester, New York	2022-2024
Course Discussion Facilitator	
<i>IND 501: Ethics and Professional Integrity</i> (Fall 2022, Fall 2023, Fall 2024, graduate)	

University of Virginia, School of Data Science, Charlottesville, Virginia
 Faculty Capstone Advisor
DS 6013: Data Science Capstone Project (Fall 2021, graduate) 2021-2022
DS 6013: Data Science Capstone Project (Spring 2022, graduate)

Columbia University, School of Nursing, New York, New York
 Co-instructor
NURSN 9550: Research Synthesis Through Information Visualization (Fall 2020, Fall 2021, graduate) 2020-2021

University of Iowa, College of Nursing, Iowa City, Iowa
 Adjunct Lecturer
NURS 5040: Genetics/Genomics for Advanced Nursing Practice (Summer 2019 – 2022, graduate) 2016-2022
NURS 3734: Introduction to Human Genetics (Fall 2016 – Spring 2021, undergraduate)

University of Virginia, School of Nursing, Charlottesville, Virginia
 Graduate Teaching Assistant
GNUR 6559: Healthcare Data Mining (Spring 2018, graduate) 2016-2018
NUCO 3310: Patient-Family Centered Care: Pediatrics (Spring 2017, undergraduate)
NUIP 2240: Lifespan and Development (Fall 2016, Fall 2017, undergraduate)

AWARDS AND HONORS

Josephine Craytor Nursing Faculty Award University of Rochester School of Nursing	2024
Certificate of Excellence, Top Reviewer of the Year <i>Journal of the American Medical Informatics Association</i>	2023
Most Promising New Investigator University of Rochester School of Nursing	2023
Phyllis J. Verhonick Dissertation Award University of Virginia School of Nursing	2020
Poster Award International Society for Nurses in Genetics 2019 World Congress	2019
Podium Award Barbara Parker Research Symposium, University of Virginia	2018, 2019
Wood Family Award for Outstanding Service in Data Science Data Science Institute, University of Virginia	2018
The Raven Society Member University of Virginia	Inducted 2017
Poster Award	2017

Graduate School of Arts and Sciences Huskey Research Symposium, University of Virginia

Graduate Teaching Assistant Award 2017
University of Virginia School of Nursing

Sigma Theta Tau Nursing Honor Society, Beta Kappa Chapter Inducted 2016
University of Virginia School of Nursing

Intramural Research Training Award 2016
National Institute of Nursing Research Summer Genetics Institute (SGI)

Beginning Practitioner of the Year Nomination 2016
University of Virginia Medical Center

The Church Home and Hospital Nursing Alumnae Award 2013
The Johns Hopkins University

BSN Graduation Class speaker 2013
The Johns Hopkins University, School of Nursing

Biology and Society Honors Program 2010-2012
Cornell University

Lambda Pi Eta National Communication Honor Society 2010-2012
Cornell University

Dean's List 2009-2012
Cornell University

PUBLICATIONS

Peer-Reviewed Research Publications

1. George, A., Maisa, A., **Dreisbach, C.**, & Suba, S. (2025). A Pilot Report on Extracting Symptom Onset Date and Time From Clinical Notes in Patients Presenting With Chest Pain. *Computers, informatics, nursing : CIN*, 10.1097/CIN.0000000000001406. Advance online publication. <https://doi.org/10.1097/CIN.0000000000001406>.
2. Deng, Z., Koleck, T.A., Zhang, C., Higgins, P., & **C. Dreisbach**. (2025). AOUSDOHtools: An R Package for Social Determinants of Health Survey data in the All of Us Research Program. *Journal of Open Source Software*, 10(116), 9306, <https://doi.org/10.21105/joss.09306>
3. Kelsey, C., Moulder, R., Yancey, H., Prescott, S., McCulloch, J. A., Trinchieri, G., **Dreisbach, C.**, Alhusen, J., Grossmann, T., et al. (2025). Bidirectional relations between the maternal and infant gut microbiome and behavior. *Pediatric Research*. <https://doi.org/10.1038/s41390-025-04630-9>
4. Nuzzo, M., Erickson, E., Groth, S., Yu, Y., Koleck, T.A., Li, H., Martinez, K., Zaman, A., & **C. Dreisbach**. (2025). Genetic variation associated with side effects of hormonal contraception exposure: a narrative review. *Frontiers in Reproductive Health, Gynecology*, 7. doi: 10.3389/frph.2025.1720994.
5. Chi, J., Roupail, Y., Hillis, E., Ma, N., Nguyen, A., Wang, J., Hofford, M., Gupta, A., Lyons, P. G., Wilcox, A., Lai, A. M., Payne, P. R. O., Kollef, M. H., **Dreisbach, C.**, & Michelson, A. P.

- (2025). EchoLLM: extracting echocardiogram entities with light-weight, open-source large language models. *JAMIA open*, 8(4), ooaf092. <https://doi.org/10.1093/jamiaopen/ooaf092>
6. Sanjeevi, N., **Dreisbach, C.**, Peddada, S., Siega-Riz, A. M., Fouladi, F., & Nansel, T. (2025). Prospective Associations of Breastfeeding Parents' Postpartum Dietary Intake With Infant Gut Microbiome at Age 6 Months in the Pregnancy Eating Attributes Study. *Journal of the Academy of Nutrition and Dietetics*, 125(11), 1746–1754.e1. <https://doi.org/10.1016/j.jand.2025.07.005>.
 7. Meng, Y., Thornburg, L. L., **Dreisbach, C.**, Orzolek, C., Kautz, A., Murphy, H. R., Rivera-Núñez, Z., Wang, C., Miller, R. K., O'Connor, T. G., & Barrett, E. S. (2025). The role of prenatal maternal sex steroid hormones in weight and adiposity at birth and growth trajectories during infancy. *International journal of obesity (2005)*, 49(5), 954–964. <https://doi.org/10.1038/s41366-025-01743-3>.
 8. Li, X., **Dreisbach, C.**, Gustafson, C. M., Murali, K. P., & Koleck, T. A. (2025). Prevalence of Multiple Chronic Conditions Among Adults in the *All of Us* Research Program: Exploratory Analysis. *JMIR formative research*, 9, e69138. <https://doi.org/10.2196/69138>.
 9. Dzikowicz, D. J., Aktas, M., Wang, J., & **Dreisbach, C.** (2025). An evaluation of funded National Institutes of Health grants in nursing science and artificial intelligence. *Nursing outlook*, 73(5), 102529. Advance online publication. <https://doi.org/10.1016/j.outlook.2025.102529>
 10. **Dreisbach, C.**, Yu, Y., & Groth, S. (2025). Call to Action to Quantify Non-Severe and Severe Maternal Morbidity. *Journal of obstetric, gynecologic, and neonatal nursing: JOGNN*, 54(2), 131–136. <https://doi.org/10.1016/j.jogn.2025.01.004>.
 11. Underhill, M. L., Li, X., Shah, J., & **Dreisbach, C.** (2025). Low frequency of structured documentation for cancer genetic testing in a large electronic health record dataset: A brief report using All of Us Research data. *Journal of genetic counseling*, 34(2), e2011. <https://doi.org/10.1002/jgc4.2011>
 12. **Dreisbach, C.**, Barcelona, V., Turchioe, M. R., Bernstein, S., & Erickson, E. (2025). Application of Predictive Analytics in Pregnancy, Birth, and Postpartum Nursing Care. *MCN. The American journal of maternal child nursing*, 50(2), 66–77. <https://doi.org/10.1097/NMC.0000000000001082>.
 13. Ahmad, S., & **Dreisbach, C.** (2025). Application of Three-Dimensional Printing in Maternity and Pediatric Nursing Care. *MCN. The American journal of maternal child nursing*, 50(2), 86–91. <https://doi.org/10.1097/NMC.0000000000001084>
 14. Penner, S. B., Mercado, N. R., Bernstein, S., Erickson, E., DuBois, M. A., & **Dreisbach, C.** (2025). Fostering Informed Consent and Shared Decision-Making in Maternity Nursing With the Advancement of Artificial Intelligence. *MCN. The American journal of maternal child nursing*, 50(2), 78–85. <https://doi.org/10.1097/NMC.0000000000001083>
 15. **Dreisbach, C.**, Nansel, T., Peddada, S., Nicholson, W., & Siega-Riz, A. M. (2024). Dietary Sugar and Saturated Fat Consumption Associated with the Gastrointestinal Microbiome during Pregnancy. *The Journal of nutrition*, S0022-3166(24)01033-2. Advance online publication. <https://doi.org/10.1016/j.tjn.2024.09.016>
 16. Bakken, S., **Dreisbach, C.**, Kisselev, S., & Reading Turchioe, M. (2024). Advancing Data Science Competencies for Nursing PhD Students. *Studies in health technology and informatics*, 315, 515–519. <https://doi.org/10.3233/SHTI240202>
 17. Koleck, T. A., **Dreisbach, C.**, Zhang, C., Grayson, S., Lor, M., Deng, Z., Conway, A., Higgins, P. D. R., & Bakken, S. (2024). User guide for Social Determinants of Health Survey data in the All of Us Research Program. *Journal of the American Medical Informatics Association*. Advance online publication. <https://doi.org/10.1093/jamia/ocae214>
 18. **Dreisbach, C.**, Prescott, S., Siega-Riz, A. M., McCulloch, J., Habermeyer, L., Dudley, D., Trinchieri, G., Kelsey, C., & Alhusen, J. (2023). Composition of the maternal gastrointestinal microbiome as a predictor of neonatal birth weight. *Pediatric research*, 10.1038/s41390-023-02584-4. <https://doi.org/10.1038/s41390-023-02584-4>

19. Hobensack, M., **Dreisbach, C.**, Topaz, M., Elhadad, N., Mamykina, O., & Bakken, S. B. (2023). Older Adult Engagement with Symptom Reporting in a COVID-19 Citizen Science Application. *Journal of gerontological nursing*, 49(4), 6–11. <https://doi.org/10.3928/00989134-20230309-02>
20. **Dreisbach, C.**, Alhusen, J., Prescott, S., Dudley, D., Trinchieri, G., & Siega-Riz, A. M. (2023). Metagenomic characterization of the maternal prenatal gastrointestinal microbiome by pregravid BMI. *Obesity (Silver Spring, Md.)*, 31(2), 412–422. <https://doi.org/10.1002/oby.23659>
21. Le, J., Alhusen, J., & **Dreisbach, C.** (2023). Screening for Partner Postpartum Depression: A Systematic Review. *MCN. The American journal of maternal child nursing*, 10.1097/NMC.0000000000000907. Advance online publication. <https://doi.org/10.1097/NMC.0000000000000907>
22. Grayson, S. C., Patzak, S. A., Dziewulski, G., Shen, L., **Dreisbach, C.**, Lor, M., Conway, A., & Koleck, T. A. (2023). Moving beyond Table 1: A critical review of the literature addressing social determinants of health in chronic condition symptom cluster research. *Nursing inquiry*, 30(1), e12519. <https://doi.org/10.1111/nin.12519>
23. Idnay, B., Fang, Y., **Dreisbach, C.**, Marder, K., Weng, C., & Schnall, R. (2023). Clinical research staff perceptions on a natural language processing-driven tool for eligibility prescreening: An iterative usability assessment. *International journal of medical informatics*, 171, 104985. <https://doi.org/10.1016/j.ijmedinf.2023.104985>
24. Bernstein, S., Frederick, A., Abbu, S., DiCioccio, H. C., Thomas, A., & **Dreisbach, C.** (2023). Reflections on the 2021 MCN Editorial Fellowship. *MCN. The American journal of maternal child nursing*, 48(1), 6–7. <https://doi.org/10.1097/NMC.0000000000000872>
25. Prescott, S., Schminkey, D., Abukhalaf, D., DeGuzman, P., & **Dreisbach, C.** (2023). A framework to guide research and practice response to emerging infectious diseases: Genomic-to-global considerations. *Public health nursing (Boston, Mass.)*, 40(1), 144–152. <https://doi.org/10.1111/phn.13133>
26. Bakken, S., & **Dreisbach, C.** (2022). Informatics and data science perspective on Future of Nursing 2020-2030: Charting a pathway to health equity. *Nursing outlook*, 70(6 Suppl 1), S77–S87. <https://doi.org/10.1016/j.outlook.2022.04.004>
27. **Dreisbach, C.**, Grayson, S., Leggio, K., Conway, A., & Koleck, T. (2022). Predictors of Unrelieved Symptoms in All of Us Research Program Participants With Chronic Conditions. *Journal of pain and symptom management*, 64(6), 555–566. <https://doi.org/10.1016/j.jpainsymman.2022.08.018>
28. **Dreisbach, C.**, & Maki, K. (2022). A Comparison of Hypothesis-Driven and Data-Driven Research: A Case Study in Multimodal Data Science in Gut-Brain Axis Research. *Computers, informatics, nursing: CIN*, 10.1097/CIN.0000000000000954. Advance online publication. <https://doi.org/10.1097/CIN.0000000000000954>
29. **Dreisbach, C.**, Prescott, S., Alhusen, J., Dudley, D., Trinchieri, G., & Siega-Riz, A. M. (2022). Association between microbial composition, diversity, and function of the maternal gastrointestinal microbiome with impaired glucose tolerance on the glucose challenge test. *PloS one*, 17(12), e0271261. <https://doi.org/10.1371/journal.pone.0271261>
30. South, K., Bakken, S., Koleck, T., Barcelona, V., Elhadad, N., & **Dreisbach, C.** (2022). Women's Experiences of Symptoms of Suspected or Confirmed COVID-19 Illness During the Pandemic. *Nursing for women's health*, 26(6), 450–461. <https://doi.org/10.1016/j.nwh.2022.09.005>
31. **Dreisbach, C.**, Wright, M., Walker, R., Byon, H., & Keim-Malpass, J. (2022). Nursing science as a federally-recognized STEM degree: A call to action for the United States with global implications. *International Journal of Nursing Studies Advances*, 4.
32. Idnay, B., Fang, Y., **Dreisbach, C.**, Marder, K., Weng, C., & Schnall, R. (2022). Clinical Research Staff Perceptions on a Natural Language Processing-Driven Tool for Eligibility Prescreening: An Iterative Usability Assessment. Available at SSRN: <https://ssrn.com/abstract=4161537> or <http://dx.doi.org/10.2139/ssrn.4161537>

33. **Dreisbach, C.,** Cochran, C., Gyamfi, A., Henderson, W., & Prescott, S. (2022). Microbiota-driven metabolic changes with obesity during pregnancy: What can we learn from animal studies? *Frontiers in Cellular and Infection Microbiology*. Doi: 10.3389/fcimb.2021.795924
34. **Dreisbach C.** (2021). Reimagining and Contextualizing Fetal Weight Estimation. *MCN. The American journal of maternal child nursing*, 46(6), 368. <https://doi.org/10.1097/NMC.0000000000000764>
35. Rohan, A., Adams, E., **Dreisbach, C.,** & Frederick, A. (2021). Toward Evidence-Based Practice. *MCN, The American Journal of Maternal/Child Nursing*, 46(6), 364-366. doi: 10.1097/NMC.0000000000000770
36. Prescott, S., **Dreisbach, C.,** Baumgartel, K., Koerner, R., Canellas, M., St. Fleur, A., Gyamfi, A., Henderson, W., & Trinchieri, G. (2021). Impact of Intrapartum Antibiotic Prophylaxis on Offspring Microbiota. *Frontiers in Pediatrics*. Doi: 10.3389/fped.2021.754013
37. Inday, B., **Dreisbach, C.,** & Schnall, R. (2021). Natural Language Processing Systems for Eligibility Prescreening in Clinical Research: A Systematic Review. *Journal of the American Medical Informatics Association*. Doi: /10.1093/jamia/ocab228
38. Barcelona, V., Montalvo-Ortiz, J. L., Wright, M. L., Nagamatsu, S. T., **Dreisbach, C.,** Crusto, C. A., Sun, Y. V., & Taylor, J. Y. (2021). DNA methylation changes in African American women with a history of preterm birth from the InterGEN study. *BMC genomic data*, 22(1), 30.
39. Kelsey, K., Prescott, S., McCulloch, J., Trinchieri, G., Valladares, T., **Dreisbach, C.,** Alhusen, J., & T. Grossman. (2021). Gut microbiota composition is associated with newborn functional brain connectivity and behavioral temperament. *Brain, Behavior, and Immunity*, 91, 472-486.
40. **Dreisbach, C.** & T. Koleck. (2020). The state of data science in genomic nursing. *Biological Research in Nursing*, 22(3), 309-318. doi:10.1177/1099800420915991
41. **Dreisbach, C.,** Prescott, S., & J. Alhusen. (2020). Influence of maternal obesity and excessive gestational weight gain on maternal and child microbiomes: a systematic review. *Biological Research for Nursing*, 22(1), 114-125. doi: 10.1177/1099800419880615.
42. Crowder, J., Burnett, C., Laughon, K., & **Dreisbach, C.** (2019). Elder abuse in American Indian communities: An integrative review. *Journal of Forensic Nursing*, 15(4), 250-258.
43. Tallon, E. & **Dreisbach, C.** (2019). Using data science to understand complexity and quantify heterogeneity in the onset and progression of chronic disease. *Biological Research for Nursing*, 21(5), 449-457. DOI: 10.1177/1099800419863161.
44. **Dreisbach, C.,** Koleck, T., Bourne, P., & Bakken, S. (2019). A systematic review of natural language processing and text mining of symptoms from electronic patient-authored text data. *International Journal of Medical Informatics*, 125, 37-46. DOI: 10.1016/j.ijmedinf.2019.02.008
45. Turrentine, FE., **Dreisbach, C.,** St Ivany, A., Hanks, J., & Schroen, A. (2019). Influence of gender on surgical residency applicants' recommendation letters. *Journal of the American College of Surgeons*, 228(4), 356–365.e3. DOI: 10.1016/j.jamcollsurg.2019.12.020
46. Koleck, T., **Dreisbach, C.,** Bourne, P., & Bakken, S. (2019). Natural language processing of symptoms documented in free-text narratives of electronic health records: a systematic review. *Journal of American Medical Informatics Association*, 26(4), 364-379. DOI:10.1093/jamia/ocy173
47. Turner, A., Wong, D., Khan, D., **Dreisbach, C.,** Palmore, M., & Miller, C. (2019). Multi-omics approaches to study long noncoding RNA function in atherosclerosis. *Frontiers in Cardiovascular Medicine*. DOI:10.3389/fcvm.2019.00009.
48. Kelsey, C., **Dreisbach, C.,** Alhusen, J., & Grossman, T. (2019). Investigating the role of the microbiome in brain and cognitive development: Utilizing a data science approach at a new frontier in developmental psychobiology. *Developmental Psychobiology*, 61(3), 341-349. DOI:10.1002/dev.21778
49. Harrison, E., **Dreisbach, C.,** Basit, N., & Keim-Malpass, J. (2018). An application of data mining techniques to explore congressional lobbying records for patterns in pediatric special interest expenditures prior to the Affordable Care Act. *Frontiers in Big Data*, 1, 6. DOI: 10.3389/fdata.2018.00003

50. Turner, A., Wong, D., **Dreisbach, C.**, & Miller, C. (2018). GWAS reveal targets in vessel wall pathways to treat coronary artery disease. *Frontiers in Cardiovascular Medicine*, 5, 72. DOI: 10.3389/fcvm.2018.00072
51. Trowbridge, E., **Dreisbach, C.**, Sarosiek, B., Dunbar, C., Evans, S., Hahn, L., & Hullfish, K. (2017). Review of enhanced recovery programs in benign gynecologic surgery. *International Journal of Urogynecology*, 29(1), 3-11. DOI: 10.1007/s00192-017-3442-0
52. Alhusen, J., Geller, R., **Dreisbach, C.**, Constantoulakis, L., & Siega-Riz, AM. (2017). Intimate partner violence and gestational weight gain in a population-based sample of perinatal women. *Journal of Obstetric, Gynecologic & Neonatal Nursing*, 46(3), 390-402. DOI: 10.1016/j.jogn.2016.12.003
53. Neiderdeppe, J., Roh, D., & **Dreisbach, C.** (2015). How narrative focus and a statistical map shape health policy support among state legislators. *Health Communication*, 31(2), 242-55. DOI: 10.1080/10410236.2014.998913

Pre-Prints

1. George, A., Maisa, A., **Dreisbach, C.**, & Suba, S. (2024). A Pilot Report on Extracting Symptom Onset Date and Time from Clinical Notes in Patients Presenting with Chest Pain. *medRxiv*. <https://doi.org/10.1101/2024.12.26.24319658>.
2. Li, X., **Dreisbach, C.**, Gustafson, C., Murali, KP., & Koleck, T. (2024). Estimated prevalence of multiple chronic conditions throughout adulthood using data from the All of Us Research Program. *medRxiv*. <https://doi.org/10.1101/2024.10.17.24315661>.
3. Kells, M., **Dreisbach, C.**, Flannery, M., & Ramsdale, E. (2024, July 22). Implications of ChatGPT and Generative Language Models for Nursing Science and PhD Education. *EduArxiv*, <https://doi.org/10.35542/osf.io/6m4et>
4. Meng, Y., Thornburg, L., **Dreisbach, C.**, Orzolek, C., Kautz, A., Murphy, H., Rivera-Núñez, Z., Wang, C., Miller, R., O'Connor, T., & Barrett, E. (2024). The role of prenatal maternal sex steroid hormones in weight and adiposity at birth and growth trajectories during infancy. *Research square*, rs.3.rs-4178000. <https://doi.org/10.21203/rs.3.rs-4178000/v1>

Book Chapters

1. Bakken, S., **Dreisbach, C.**, Kisselev, S., & Turchioe, M. R. (2024). Advancing Data Science Competencies for Nursing PhD Students. In: Innovation in Applied Nursing Informatics. IOS Press. Pages 515-519. Doi:10.3233/SHTI240202.
2. **Dreisbach, C.** (2022). Introduction to Genetics and Genomics. In: Subasic, K. (eds) Fast Facts in Genetics and Genomics. Springer.
3. Bakken S., Koleck T.A., **Dreisbach C.**, & Hickey K.T. (2020) Enabling Precision Health Approaches for Symptom Science Through Big Data and Data Science. In: Dorsey S., Starkweather A. (eds) Genomics of Pain and Co-Morbid Symptoms. Springer, Cham. https://doi.org/10.1007/978-3-030-21657-3_17

Conference Papers and Proceedings

1. Li, X., Dzikowicz, D., Kang, J., & **Dreisbach, C.** (2024). Characterizing usage of wearable device for sleep tracking among women in a real-world cohort from the *All of Us* Research Program. *Proceedings of the 29th ACM SIGKDD Conference on Knowledge Discovery and Data Mining*.
2. **Dreisbach, C.**, A.P. Karunanidhi, Y. Shimazaki, N. Rana, L. Thornburg, L. Wang, S. Groth & S. Hollenbach. (2023). Using Simulated Data to Predict Birthweight from Prenatal Ultrasound Images. *Accepted to the Western New York Image and Signal Processing Workshop*.
2. Ford, S., Merchant, R., Pavuloori, A., Williams, R., **Dreisbach, C.**, Saunders, A., Wernz, C., & Michel, J. (2022). Patient Phenotypes to Identify Resource Allocation and Usage in Primary Care. *2022 Systems and Information Engineering Design Symposium (SIEDS)*.

3. Spira, D., Mayat, N., **Dreisbach, C.**, & Poliak, A. (2021). Discovering changes in birthing narratives during COVID-19. *Accepted to Widening Natural Language Processing 2021 Conference (WiNLP)*.
4. Fleming, M., Dondeti, P., **Dreisbach, C.**, & Poliak, A. (2021). Fine-Tuning Transformers for Identifying Self-Reporting Potential Cases and Symptoms of COVID-19 in Tweets. *arXiv*, Social Media Mining for Health Applications 2021 Shared Task.
5. Wall, M., **Dreisbach, C.**, Zaidi, A., Flower, AA, & C. Overall. (2018). Using autoencoders and text mining to characterize single cell populations in the hippocampus and cortex. *2018 Systems and Information Engineering Design Symposium (SIEDS)*.
6. Nobles, A., **Dreisbach, C.**, Keim-Malpass, J., & Barnes, L. (2018). “Is this a STD? Please help!”: Online Information Seeking for Sexually Transmitted Diseases on Reddit. *Twelfth International AAAI Conference on Weblogs and Social Media*.

Open Code and Packages

1. Algorithm to identify pregnancy episodes in the *All of Us* Research Program dataset. https://github.com/DreisbachLab/AllofUs_Pregnancy_Episodes.
2. Package and scripts to wrangle constructs within the Social Determinants of Health (SDOH) Survey data from the *All of Us* Research Program. https://github.com/DreisbachLab/AllofUs_SDOH.
3. AOUSDOH package, CRAN. <https://r-packages.io/packages/AOUSDOHtools>

PRESENTATIONS

Oral (Podium) Presentations

1. Goh, A., **Dreisbach, C.**, Erickson, E. (2025) The birth of artificial intelligence for healthcare - what midwives should know. American College of Nurse-Midwives 2025 ACNM 70th Annual Meeting and Exhibition. Palm Springs, California.
2. **Dreisbach, C.**, Li, X., & T. Koleck. (2025). Sequential Data Mining Applications in the *All of Us* Research Program. American Medical Informatics Association Clinical Informatics Summit. Pittsburgh, Pennsylvania.
3. Zhang, C., **Dreisbach, C.**, Chang, W., Qiao, S., LeBlanc, N., Yang, Y., Liu, Y. (2025). Do Neighborhood-Level Stressors and Resilience Factors Impact Alcohol Use Among Sexual Minority Groups: Insights from the NIH All of Us Research Project. 6th National Big Data Health Science Conference 2025. February 14, 2025. Columbia, South Carolina.
4. Zhang, C., **Dreisbach, C.** Liu, Y. (2024, August). Analysis of Social Determinants of Health among Gay, Bisexual and Men who have Sex with Men in the United States: Insights from the All of Us project. LGBTQ Annual Conference, Atlanta, Georgia.
5. Underhill-Blazey, M., Shah, J. & **Dreisbach, C.** (2024, June). Utilizing the All of Us Research Workbench to understand the social, familial, and clinical context of pancreatic cancer. Council for the Advancement of Nursing Science, Washington, D.C.
6. **Dreisbach, C.**, Verneti, E., Netro, C., Bell, K., Truax, J. & L. Rosario-McCabe. (2024, June). Application of a Racial Justice Workshop in an On-Campus Clinical Setting. 2024 Experiential Learning Summit, University of Rochester, Rochester, New York.
7. **Dreisbach, C.**, McEvoy, J., Truax, J., & L. Rosario-McCabe. (2024, June). Development of On-Campus Clinical for Undergraduate Women’s Health Nursing Students. 2024 Experiential Learning Summit, University of Rochester, Rochester, New York.
8. **Dreisbach, C.**, Grayson, S., Lor, M, Leggio, K., Conway, A., & Koleck, T. (2023, November). User Guide for Social Determinants of Health Survey Data in the All of Us Research Program. American Medical Informatics Association (AMIA), 2023 Annual Symposium. New Orleans, Louisiana. November 10-15, 2023.

9. Koleck, T & **Dreisbach, C.** (2023, November). All of Us Research Hub: An Overview of Genomic Data Opportunities for Nurse Scientists. Expert lecture at the International Society of Nurses in Genetics World Congress Genomic Nursing: Building & Strengthening Bridges Between Advances & Practice. Providence, Rhode Island. November 3-5, 2023.
10. Koleck, T. A., Patzak, S. A., Dziewulski, G., Shen, L., **Dreisbach, C.**, Lor, M., Conway, A., & Grayson, S. C. (2022, September). *A critical review of social determinants of health in chronic condition symptom cluster research*. Council for the Advancement of Nursing Science 2022 State of the Science Congress on Nursing Research: Social & Structural Determinants of Health, Washington, DC.
11. **Dreisbach, C.**, South, K. Koleck, T., Barcelona, V., Elhadad, E., Mamykina, O., & Bakken, S. (2021). "Informing Symptom Science Using a Citizen Science Application in the COVID-19 Pandemic". American Medical Informatics Association (AMIA), 2021 Annual Symposium. San Diego, California. October 30-November 3, 2021.
12. **Dreisbach, C.**, Deas, K., & Gabrielle, A. "The Uses of Data in Patient Care." Tom Tom Cities Rising Summit, Charlottesville, Virginia. October 22, 2020. [Virtual due to COVID-19 pandemic].
13. **Dreisbach, C.**, Alhusen, J., & Siega-Riz, A.M. "Leveraging Data Science to Examine the Influence of Maternal Obesity on the Association Between Microbial Function and Impaired Glucose Tolerance During Pregnancy." Phoenix, Arizona. June 2020. [Canceled due to the COVID-19 pandemic, given virtually in November 2020].
14. **Dreisbach, C.**, Schminkey, D., Suphal, K., Thelen, M., Dunbar, P., & Price, J. "Perception of Psychological Trauma in Labor and Delivery". Evidence-Based Practice Day, University of Virginia Health System, Charlottesville, Virginia. April 3, 2019.
15. **Dreisbach, C.**, Prescott, S., & Alhusen, J. "Influence of maternal obesity and excessive gestational weight gain on maternal and child microbiomes: a systematic review." Barbara Parker Research Symposium. Charlottesville, Virginia. March 26, 2019.
16. **Dreisbach, C.**, Wall, M., Zaidi, A., Flower, A., & Overall, C. "Joining Separate Paradigms: Text Mining and Deep Neural Networks to Characterize Neuronal Cell Type in the Cortex and Hippocampus." TomTom Machine Learning Conference. Charlottesville, Virginia. April 12, 2018.
17. **Dreisbach, C.**, Wall, M., Zaidi, A., Flower, A., & Overall, C. "Joining Separate Paradigms: Text Mining and Deep Neural Networks to Characterize Neuronal Cell Type in the Cortex and Hippocampus." Systems Information Engineering and Design Conference. Charlottesville, Virginia. April 27, 2018.
18. **Dreisbach, C.**, Wall, M., Zaidi, A., Flower, A., & Overall, C. "Text Mining and Deep Neural Networks to Characterize Neuronal Cell Type in the Cortex and Hippocampus." Barbara Parker Research Symposium. Charlottesville, Virginia. March 13, 2018.

Poster Presentations

1. Nuzzo, M. & **Dreisbach C.** (2025, September) Hormonal Contraceptive Response: Side Effects by Genotype in the All of Us Research Program. GIDS-AI Meliora Weekend. September 19, 2025.
2. Zhang, C., Chang, W., Tang, Y., Qiao, S., **Dreisbach, C.**, Liu, Y. (2025, February. Resilience, Stressors, and Intersectionality: Understanding Alcohol and Drug Use Disparities Among Sexual Minority Populations. 6th National Big Data Health Science Conference 2025. February 14, 2025. Columbia, SC, USA. Poster Presentation.
3. Zhang, C., Liu, Y., Yang, Y., **Dreisbach, C.**, Chang, W. (2025, April). Disparities in Healthcare Discrimination Among Sexual Minority Groups: Insights from the NIH All of Us Program. Association for Clinical and Translational Science Conference. Washington, DC.
4. Zhang, C., Liu, Y., Chang, W., Yang, Y., **Dreisbach, C.** (2025, April). Neighborhood level Stressors, Resilience Sources and Other Characteristics Among Sexual Minority Groups. Association for Clinical and Translational Science Conference. Washington, DC.

5. Chi, J., Hillis, E., Rouphail, Y., Ma, N., Nguyen, A., Wang, J., Hofford, M., Gupta, A., Lyons, P., Wilcox, A., Lai, A., Payne, P., **Dreisbach, C.**, & A. Michelson. (2025, March). Extracting Echocardiogram Entities with Light-Weight, Open-Source Large Language Models. American Medical Informatics Association Clinical Informatics Summit. Pittsburgh, Pennsylvania.
6. Gustafson, C., Li, X., **Dreisbach, C.**, Li, X., & T. Koleck. (2025, March). All of Us Research Program Participants with Multiple Chronic Conditions. American Medical Informatics Association Clinical Informatics Summit. Pittsburgh, Pennsylvania.
7. Truax, J., **Dreisbach, C.**, McEvoy, J., & L. Rosario-McCabe. (2024, December 5). Developing a Summative Assignment Using the Clinical Judgment Measurement Model and Leveraging Artificial Intelligence for the Case Study Development. American Academy of Colleges of Nursing (AACN) Transform 2024. New Orleans, Louisiana.
8. Truax, J., **Dreisbach, C.**, & L. Rosario-McCabe. (2024, December 6). Leveraging Technology: Leading Innovation in Health Care Education Through Interactive Pre-Learning for Undergraduate Nursing Students. American Academy of Colleges of Nursing (AACN) Transform 2024. New Orleans, Louisiana.
9. Li, X., Dzikowicz, D., Kang, J., & **Dreisbach, C.** (2024, September 27). Characterizing sleep tracking among menopausal women in a real-world cohort from the All of Us Research Program. University of Rochester Data Science Research Fair. Rochester, New York.
10. McEvoy, J., Truax, J., & **Dreisbach, C.** (2024, September 7). Baby steps to expertise: Implementing newborn case studies to develop clinical judgement in nursing. Academy of Neonatal Nursing, New Orleans, Louisiana.
11. Li, X., Dzikowicz, D., Kang, J., & **Dreisbach, C.** (2024, August 27). Characterizing usage of wearable device for sleep tracking among women in a real-world cohort from the All of Us Research Program. Proceedings of the 29th ACM SIGKDD Conference on Knowledge Discovery and Data Mining.
12. Kelsey, C., Moulder, R., Yancey, H., Prescott, S., McCulloch, J., Trinchieri, G., **Dreisbach, C.**, Alhusen, J., & Grossmann, T. (2024, July 8). The bidirectional relations between the maternal and infant gut microbiome and behavior during the first year of postnatal life. International Congress for Infant Studies Biennial meeting, Glasgow, Scotland.
13. **Dreisbach, C.**, Li, X., Zaman, A., Koleck, T., Erickson, E., & Groth, S. (2024, April 4). Understanding Contraception Prescription Patterns in the All of Us Research Program. Eastern Nursing Research Society. Boston, Massachusetts.
14. Zhang, C., & **Dreisbach, C.** (2024, April 3). Understanding Racial/Ethnic Disparity in Social Support and Everyday Discrimination Among Cisgender Women in the United States: Insights from the All of Us Dataset. All of Us Conference. [Virtual].
15. **Dreisbach, C.**, A.P. Karunanidhi, Y. Shimazaki, N. Rana, L. Thornburg, L. Wang, S. Groth & S. Hollenbach. (2023, November 1). Using Simulated Data to Predict Birthweight from Prenatal Ultrasound Images. Accepted to the Western New York Image and Signal Processing Workshop. Rochester, New York.
16. X. Li & **Dreisbach, C.** (2023, October 26). Mapping Contraceptive Prescribing Patterns: Understanding Individual Decision-Making and Provider Practices. University of Rochester Undergraduate Research Day. Rochester, New York.
17. Koleck, T.A., **Dreisbach, C.**, Leggio, K., Grayson, S., Conway, A., & Lor, M. (2023, September). Promoting health equity research: A practical guide to using the social determinants of health survey in the All of Us Research Program. Poster presentation at the 2023 Council for the Advancement of Nursing Science Advanced Methods Conference. [Virtual].
18. **Dreisbach, C.**, Grayson, S., Leggio, K., Conway, A., & Koleck, T. (2023, May 22). Predictors of Unrelieved Symptoms in Individuals with Chronic Conditions: The Relevance of the All of Us Research Program Survey Data to Interdisciplinary Care. American Academy of Physician Associates, Nashville, Tennessee. [Virtual poster session].

19. **Dreisbach, C.**, Grayson, S., Leggio, K., Conway, A., & Koleck, T. (2022, November 8). Symptom Phenotypes and Predictors of Unrelieved Symptoms in Individuals with Chronic Conditions: A Cross-sectional Analysis of the All of Us Research Program Survey Data. 2022 American Medical Informatics Association (AMIA) Annual Symposium. Washington, D.C.
20. **Dreisbach, C.**, South, K. Koleck, T., Barcelona, V., Elhadad, E., Mamykina, O., & Bakken, S. (2021). "Clustering and Validation of COVID-19 Symptom Phenotypes for Hispanic/Latina Women". American College of Obstetricians and Gynecologists (ACOG), 2021 ACOG Annual Clinical and Scientific Meeting (ACSM): Personalizing Care: A Way to the Future. April 20-May 3, 2021.
21. **Dreisbach, C.**, Mculloch, J., Prescott, S., Dudley, D., Trinchieri, G., Alhusen, J., & Siega-Riz, AM. (2019). "The influence of maternal obesity on microbial function and impaired glucose tolerance during pregnancy." International Society of Nurses in Genetics 2019 World Congress "Transforming Health through Genomic Nursing". San Antonio, Texas. November 7-10, 2019.
22. **Dreisbach, C.**, M. Thelen., C.P. Muthusubramanian, F. Tyree, K. Suphal, B. Morrill, C. Miller-Davis, & L. Letzkus. "Postpartum assessment of psychological trauma from the labor and delivery experience." Association for Women's Health, Obstetric, and Neonatal Nurse (AWHONN), Virginia Section. Charlottesville, Virginia. March 17 – 18, 2019.
23. **Dreisbach, C.**, Alhusen, J., Seiga-Riz, A.M., Constantoulakis, L., & Geller, R. "Predictors of Gestational Weight Gain in a Population-based Sample." Graduate School of Arts and Sciences Huskey Research Symposium, University of Virginia, Charlottesville, Virginia. March 21, 2017.

Invited Presentations

1. **Dreisbach, C.** "Reimagining Reproductive Health Through Data Science: Insights from the All of Us Research Program". GIDS-AI Seminar. December 5, 2025.
2. **Dreisbach, C.** GIDS-AI 10th Anniversary Faculty Speaker. September, 19, 2025.
3. **Dreisbach, C.** "Accelerating Real-World Evidence". University of Rochester Digital Health Retreat. September 5, 2025.
4. **Dreisbach, C.** "Nurses Advancing Reproductive and Sexual Health Research Using the All of Us Researcher Workbench". Association of Nurses in AIDS Care (ANAC). May 9, 2024. [Virtual].
5. **Dreisbach, C.** Closing Summary for Researchers and Call to Action. All of Us Researcher Convention. April 4, 2024. [Virtual].
6. **Dreisbach, C.** & Cupertino, P. "All of Us Research Program: Opportunities For University of Rochester Researchers". University of Rochester Clinical and Translational Sciences Institute (CTSI). February 22, 2023.
7. **Dreisbach, C.** "Improving Clinical Assessment During Pregnancy Using Imaging Analysis." Goergen Institute for Data Science (GiDS) Symposium. December 9, 2022.
8. **Dreisbach, C.** "Data-Powered Women's Health: Intersection of the Microbiome, Nutrition, & Data Science". School of Public Health and Health Sciences Dean's Seminar, University of Massachusetts at Amherst. October 12, 2022.
9. Koleck, T. & **Dreisbach, C.** "Predictors of unrelieved symptoms in individuals with chronic conditions: A cross-sectional study of the All of Us survey data." All of Us Research Program Office Hours. September 16, 2022.
10. **Dreisbach, C.** "Data science to advance clinical assessment during pregnancy." Grand Rounds, University of Rochester School of Nursing. September 14, 2022.
11. **Dreisbach, C.** "Data-Informed Women's Health: Data Science and the Microbiome." Precision Health (T32) Methodology Summer Boot Camp. University of Texas at Austin. August 9, 2022. [Virtual].
12. **Dreisbach, C.** "Maternal Microbiome & the Environment: What is our role as nurses and scientists?" University of Calgary. Alberta, Canada. October 23, 2020. [Virtual due to COVID-19 pandemic].

13. **Dreisbach, C.** “Data-informed women's health: from the microbiome to symptom-focused artificial intelligence.” Columbia University School of Nursing. New York, New York. November 17, 2020. [Virtual due to COVID-19 pandemic].
14. **Dreisbach, C. & Koleck, T.** “Keynote Session: The State of Data Science.” 2018 World Congress “Building Connections to Genomic Health.” International Society for Nurses in Genetics (ISONG). Orlando, Florida. October 26, 2018.

LEADERSHIP AND SERVICE (2022-present)

Local and University

Student Affairs Committee, Member (elected), 2024-2026

University of Rochester School of Nursing

Research Council, Member (elected), 2023-2025

Research Council, Chair (elected), 2024-2025

University of Rochester School of Nursing

Co-Founder and Member, 2023 - present

Equity for Parent-Child and Transgenerational Health (EmPATH) Research Team

Regional

Member (invited), 2022 - 2025

Nursing Informatics Advisory Council, University of Rochester Medicine Enterprise

National and International

Member (invited), 2023-2024

Community Advisory Board (CAB), *All of Us* Research Program

Editorial Advisory Board (invited), 2024 - 2027

Journal of Obstetric, Gynecologic, & Neonatal Nursing

Research Ambassador (invited), 2022-2024

All of Us Research Program

Editorial Board Member (invited), 2022-2024, renewed for second term 2025-2027

Journal of the American Medical Informatics Association

Editorial Fellow (applied and accepted), 2021

MCN: The American Journal of Maternal/Child Nursing

Journal Reviewer

Journal of the American Medical Informatics Association

Applied Clinical Informatics

Journal of Obstetric, Gynecologic, and Neonatal Nursing

BMC Pregnancy and Childbirth

Maternal and Child Health

MCN: The American Journal of Maternal/Child Nursing

Biological Research for Nursing
Nursing Outlook

Grant Reviewer

Early Career Reviewer Program, National Institutes of Health
(Clinical Informatics and Digital Health [CIDH] Study Section, 2025)
AIM-AHEAD Consortium
Clinical and Translational Sciences Institute, University of Rochester
Goergen Institute for Data Science and Artificial Intelligence, University of Rochester
School of Nursing, University of Rochester

PROFESSIONAL MEMBERSHIPS

Eastern Nursing Research Society (ENRS)	2022 - present
American College of Obstetricians and Gynecologists (ACOG)	2020 - present
American Medical Informatics Association (AMIA)	2017 - present
Association of Women's Health, Obstetric, and Neonatal Nurses (AWHONN)	2014 - present
International Society for Nurses in Genetics (ISONG)	2015 - 2022
Sigma Theta Tau International Honor Society of Nursing, Beta Kappa	2015 - present
Sigma Theta Tau International Honor Society of Nursing, Epsilon Xi	2024 - present
American Nurses Association (ANA)	2015 - 2020

LICENSURE AND CERTIFICATION

New York State Office of Professions	Registered Nurse #800569	July 31, 2028
National Certification Corporation (NCC)	Electronic Fetal Monitoring (EFM)	June 15, 2028