

Caitlin Dreisbach, PhD, RN
Assistant Professor, 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 2020-2022
Data Science Institute Postdoctoral Fellows Program
Mentors: Suzanne Bakken, PhD, RN, FAAN, FACMI and Noémie Elhadad, PhD

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, Rochester, New York	2022-present
Adjunct Assistant Professor, 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.
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- 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 a computational algorithm to identify cell type from scRNA-seq expression data.
- Identified cellular functions that are unregulated or downregulated in neurological processes.

University of Virginia Medical Center 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

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 (SIGS), (Modules included: Computational Pipeline for Whole Genome Sequencing Data, Integrative Genomics, and Pathway and Network Analysis for Omics Data). 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 Virginia Health System, Charlottesville, Virginia 2014-2020

RN Clinician 2 (Wage/PRN), Labor and Delivery

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

RN Clinician 2, Pediatric Float Pool, Staffing Resource Office

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

RN 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.

RN Clinician 1, 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)

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

GRANT SUPPORT AND FUNDING

Mentored Research Scientist Development Award K01 2022-

Sponsor: National Institute of Health, National Institute of Nursing Research

(NIH/NINR)

K01NR020504

present

Role: Principal investigator

Project title: Neural Network Approach to Estimate Fetal Weight in the Late Third Trimester of Pregnancy

Health Sciences Center for Computational Innovation Pilot Grant \$33,144 2022-present
Sponsor: University of Rochester

Role: Principal investigator

Title: Using neural networks to advance the estimation and prediction of fetal weight to improve assessment, clinical decision making and labor planning

Columbia University School of Nursing Intramural Grant \$10,000 2021-2022

Sponsor: Columbia University School of Nursing

Role: Principal investigator

Title: Using Natural Language Processing to Discover COVID-19 Impacts on Birthing Families from Social Media

Precision in Symptom Self-Management (PriSSM) Center Pilot Grant Award \$10,000 2020-2021

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

Role: Principal investigator

Project title: Clustering and validation of COVID-19 symptom phenotypes for Hispanic/Latina women.

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

Project title: The influence of maternal obesity on microbial function and impaired glucose tolerance during pregnancy.

2018 March of Dimes Margaret Comerford Freda "Saving Babies, Together®" Award \$5,000 2018-2019

Sponsor: Association for Women's Health, Obstetric, and Neonatal Nurses (AWHONN)

Role: Principal investigator

Title: Leveraging Data Science to Examine the Influence of Maternal Obesity on the Association Between Microbial Function and Impaired Glucose Tolerance During Pregnancy.

Dannon Yogurt, Probiotics and the Gut Microbiome Fellowship Grant \$25,000 2018-2020

Sponsor: Danone North America

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

Presidential Fellowship in Data Science <i>Sponsor: Data Science Institute and Office of Postdoctoral Affairs, University of Virginia</i> Title: Mothers, Infants, Microbiome and Mental Health (MIMMs): A social neuroscience perspective of maternal-child health to unlock the potential of biobanked data	\$28,000	2017-2018
Jonas Nurse Leader Scholar Fellowship <i>Sponsor: Jonas Center</i>	\$10,000	2016-2018

AWARDS AND HONORS

Phyllis J. Verhonick Dissertation Award University of Virginia School of Nursing		2020
Poster Award (1st Place) 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 Graduate School of Arts and Sciences Huskey Research Symposium, University of Virginia		2017
Graduate Teaching Assistant Award University of Virginia School of Nursing		2017
Sigma Theta Tau Nursing Honor Society, Beta Kappa Chapter University of Virginia School of Nursing		Inducted 2016
Intramural Research Training Award National Institute of Nursing Research Summer Genetics Institute (SGI)		2016
Beginning Practitioner of the Year Nomination University of Virginia Medical Center		2016
Cum Laude The Johns Hopkins University.		2013
The Church Home and Hospital Nursing Alumnae Award The Johns Hopkins University		2013

BSN Graduation Class speaker The Johns Hopkins University, School of Nursing	2013
Biology and Society Honors Program Cornell University	2010-2012
Lambda Pi Eta National Communication Honor Society Cornell University	2010-2012
Dean's List Cornell University	2009-2012

PUBLICATIONS

Peer-Reviewed Research Publications

1. **Dreisbach, C.**, Alhusen, J., Prescott, S., Dudley, G., Trinchieri, G., & Siega-Riz, A.M. Metagenomic characterization of the maternal prenatal gastrointestinal microbiome by pre-gravid body mass index. *Obesity* [accepted, awaiting press].
2. **Dreisbach, C.**, Grayson, S., Leggio, K., Conway, A. & Koleck, T. Predictors of unrelieved symptoms in All of Us Research Program participants with chronic conditions. *Journal of Pain and Symptom Management*, S0885-3924(22)00872-7. Advance online publication. <https://doi.org/10.1016/j.jpainsymman.2022.08.018>
3. **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* [accepted, awaiting press].
4. Grayson, S., Patzak, S., Dziejewski, G., Shen, L., **Dreisbach, C.**, Lor, M., Conway, A., & Koleck, T. (2022). Moving beyond table 1: A critical review of the literature addressing social determinants of health in chronic condition symptom cluster research. *Nursing Inquiry*. [accepted, awaiting press].
5. Prescott, S., Schminkey, D., Abukhalaf, D., DeGuzman, P., & **Dreisbach, C.** (2022). A framework to guide research and practice response to emerging infectious diseases: Genomic-to-global considerations. *Public Health Nursing*. [accepted, awaiting press].
6. South, K., Bakken, S., Koleck, T., Barcelona, V., Elhadad, N., & **Dreisbach, C.** (2022). Symptom experiences of suspected or confirmed COVID-19 illness for women during the pandemic. *Nursing for Women's Health* [accepted, awaiting press].
7. **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.
8. 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>
9. **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
10. **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>

11. 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
12. 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
13. 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
14. 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.
15. 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.
16. **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
17. **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.
18. 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.
19. 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.
20. **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
21. 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
22. 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
23. 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.
24. 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 [Shared first-author]
25. 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
26. 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
27. 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

28. 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
29. 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

Book Chapters

1. **Dreisbach, C.** (2022). Introduction to Genetics and Genomics. In: Subasic, K. (eds) *Fast Facts in Genetics and Genomics*. Springer.
2. 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 Proceedings

1. 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)*.
2. 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)*.
3. 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*.
4. 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)*.
5. 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*.

PRESENTATIONS

Oral Presentations

1. 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*. Podium presentation at the Council for the Advancement of Nursing Science 2022 State of the Science Congress on Nursing Research: Social & Structural Determinants of Health, Washington, DC.
2. **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.
3. **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].
4. **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].
5. **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.
 6. **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.
 7. **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.
 8. **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.
 9. **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. **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.
2. **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.
3. **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.
4. **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 Talks

1. Koleck, T. & **C. Dreisbach**. “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.
2. **Dreisbach, C.** “Data science to advance clinical assessment during pregnancy.” Grand Rounds, University of Rochester School of Nursing. September 14, 2022.
3. **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].
4. **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].

5. **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].
6. **Dreisbach, C. & T. Koleck.** “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

Leadership and Community Service

Member 2022 - present
Nursing Informatics Advisory Council, University of Rochester Medical Center

Union Steward (elected) 2020-2022
Columbia Postdoctoral Workers Union (CPW-UAW)

Research Mentor 2020-2021
Barnard BEARS: Better, Enhance, and Advance Research Series, 2020 – 2021

Co-Founder and Co-President (elected) 2018-2020
University of Virginia Data Science and Analytics Club

Professional Organizations and Committees
Co-Chair, Education Committee 2018-2020
International Society for Nurses in Genetics

Advisory Board Member
TomTom Festival Applied Machine Learning Conference 2019-2020

Advisory Board Member 2019-2020
Women in Data Science (WiDS) Conference

Student Representative, Research Committee 2019-2020
University of Virginia School of Nursing

Student Representative to the Board of Directors (elected) 2017-2018
International Society for Nurses in Genetics (ISONG)

Student Representative to the Graduate School of Arts and Sciences 2016-2018
University of Virginia

Vice President (elected) 2013
Reproductive Health and Justice group, The Johns Hopkins University

Class Secretary 2012-2013
The Johns Hopkins University School of Nursing

Editorial Activities

2021 Editorial Fellow 2021

MCN: The American Journal of Maternal/Child Nursing

Journal Reviewer

Gut Microbes

Biological Research for Nursing

Journal of the American Medical Informatics Association (JAMIA)

Applied Clinical Informatics

MCN: The American Journal of Maternal/Child Nursing

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 chapter	2015 - present
American Nurses Association (ANA)	2015 - 2020

LICENSURE

New York Registered Nurse #0001249138 Expires 12/03/2023