

Nicole (Nicky) I. Wakim

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Education

University of Michigan (UM) Ph.D. in Biostatistics	Ann Arbor, MI 2018 - 2023
University of Michigan (UM) M.S. in Biostatistics	Ann Arbor, MI 2016 - 2018
University of Virginia (UVA) B.S. in Biomedical Engineering	Charlottesville, VA 2012 - 2016

Experience

2023 - Present	Assistant Professor of Biostatistics Oregon Health & Science University, OHSU-PSU School of Public Health
2022 - 2023	Graduate Student Research Assistant University of Michigan, Biostatistics Consulting Core Advisors: Dr. Hui Jiang
2016 - 2021	Graduate Student Research Assistant University of Michigan, Alzheimer's Disease Center Advisors: Dr. Zhenke Wu, Dr. Thomas Braun, Dr. Hiroko Dodge
2016 - 2018	Genome Science Training Program Trainee University of Michigan, Department of Biostatistics Advisor: Dr. Hui Jiang
2014 - 2016	Research Assistant University of Virginia, Department of Biomedical Engineering Advisors: Dr. Bijoy Kundu, Dr. Kimberly Kelly

Teaching

2024	Guest Lecturer on Missing Data, Applied Biostatistics II, OHSU Humans Investigations Program
2024 - Present	Instructor on Record , Linear Models, OHSU-PSU School of Public Health
2023 - Present	Instructor on Record , Introduction to Probability, OHSU-PSU School of Public Health
2023 - Present	Instructor on Record , Categorical Data Analysis, OHSU-PSU School of Public Health

2020 - 2022	Guest Lecturer on Model Selection, Big Data Summer Institute, SIBS Program at the University of Michigan
2020 - 2022	Guest Lecturer , Theory and Application of Generalized Linear Models, University of Michigan
2021	Graduate Student Instructor , Applied Biostatistics, University of Michigan
2020 - 2021	Graduate Student Instructor , On-Job/On-Campus Master's in Clinical Research Design and Statistical Analysis, University of Michigan
2020 - 2021	Statistics Tutor , Theory and Application of Linear Regression, University of Michigan
2019 - 2021	Statistics Tutor , On-Job/On-Campus Master's in Clinical Research Design and Statistical Analysis, University of Michigan
2021	Study Group Facilitator , Theory and Application of Generalized Linear Models, University of Michigan
2020	Study Group Facilitator , Theory and Application of Linear Regression, University of Michigan
2015 - 2016	Teaching Assistant , Systems and Signals, University of Virginia
2014 - 2015	Teaching Assistant , Biomechanics, University of Virginia

Honors and Awards

2023	Educator Success Grant, Oregon Health & Science University
2022	Rackham Conference Travel Grant, University of Michigan
2021	Student Citizenship and Outreach Award Honorable Mention, Department of Biostatistics, University of Michigan
2016 - 2018	Genome Science Training Program (NHGRI T32), University of Michigan
2016	Graduated with Highest Distinction (Summa Cum Laude), University of Virginia
2012 - 2016	Dean's List (8 semesters), University of Virginia

Publications

- [1] **Wakim NI**, Braun TM, Kaye J, Dodge HH, for ORCATECH, "Choosing the right time granularity for analysis of digital biomarker trajectories," *Alzheimer's & Dementia: Translational Research & Clinical Interventions*, Dec. 2020. DOI: 10.1002/trc2.12094.
- [2] Dodge HH, Goldstein FC, **Wakim NI**, et al., "Differentiating among stages of cognitive impairment in aging: Version 3 of the Uniform Data Set (UDS) neuropsychological test battery and MoCA index scores," *Alzheimer's & Dementia: Translational Research & Clinical Interventions*, Nov. 2020. DOI: 10.1002/trc2.12103.
- [3] Schnepf PM, Shelley G, Dai J, **Wakim NI**, Jiang H, Mizokami A, and Keller ET, "Single-Cell Transcriptomics Analysis Identifies Nuclear Protein 1 as a Regulator of Docetaxel Resistance in Prostate Cancer Cells," *Molecular Cancer Research*, Sep. 2020. DOI: 10.1158/1541-7786.MCR-20-0051.
- [4] Marawar R, **Wakim NI**, Albin RL, and Dodge HH, "Seizure occurrence and related mortality in dementia with Lewy bodies," *Epilepsy & Behavior*, Jul. 2020. DOI: 10.1016/j.yebeh.2020.107311.

Presentations

Oral

- [1] *Data equity in biostatistics education: development and dissemination of a new open-access teaching data resource*, OHSU Symposium on Educational Excellence, 2024.
- [2] *Inclusive teaching in Statistics: development of a new open-access teaching data resource*, Electronic Conference On Teaching Statistics, 2024.
- [3] *Empowering Educators with DEIJ Datasets: A Journey of Transformation*, OHSU-PSU School of Public Health Faculty Spotlight Series, 2023.
- [4] *Analysis of Wearable Technology Devices Data*, Native American Research Centers for Health (NARCH) Training Grant Program, 2023.
- [5] *Imputing and Summarizing Multiple Correlated High-Frequency Digital Biomarkers*, Eastern North American Region International Biometric Society, 2023.
- [6] *Implementing Different Imputation Pipelines for High-Frequency Digital Biomarkers with Missing Data and Lower-Frequency Binary Outcomes*, Joint Statistical Meetings, 2022.
- [7] *Analysis and Summarization Pipeline for High frequency Predictors with Missing Data and Lower frequency Binary Outcomes*, Eastern North American Region International Biometric Society, 2022.
- [8] *Journal Articles: How to search, read and organize them?* Biostatistics Brown Bag Meetings, 2021.
- [9] *Race/Ethnicity and Statistical Genetics*, UM Biostatistics DEI Journal Club, 2021.
- [10] *Hot deck imputation for accelerometer data*, Michigan Statistics for Individualized-healthcare Lab Meeting, 2020.

Poster

- [1] *Hourly, Daily, Weekly or Monthly? Choosing the right data granularity for analysis of digital biomarker trajectories*, Alzheimer's Association International Conference, 2020.
- [2] *Choosing the right time granularity for analysis of digital biomarker trajectories*, Joint Statistical Meetings, 2020.
- [3] *Novel Clustering Method to Handle Outliers in Single Cell RNA Sequencing Data*, NHGRI Research Training and Career Development Annual Meeting, 2018.

Funding

Active

2024 - Present

1R25GM150166-01 (PI Marriott)

This study explores factors associated with biomedical workforce professional development. It measures the development of STEM beliefs and psychosocial factors over time, including how courses, training experiences, and/or instructional practices influence decision-making and career trajectories. This study explores the representation of professional self in portfolio materials for diverse trainees and professionals. Finally, it explores how sharing experiential stories and professional portfolio documents can impact the development of current and future biomedical workforce professionals.
Role: Biostatistician

Service

Reviewing

2024	Section on Statistics and Data Science Education Speed Presentation and Poster Competition, Joint Statistical Meetings
2024	Western North American Region (WNAR) Conference Student Paper Competition, International Biometric Society
2022	Undergraduate Class Project Competition (USCLAP)
2021	<i>Alzheimer's Research & Therapy</i>

Academic Service

2023 - Present	American Statistical Association Representative for the Oregon Chapter
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Oregon Health & Science University

2024	OHSU-PSU School of Public Health Assessment Reporting Day
2023 - Present	Biostatistics Comprehensive Exam Committee
2023 - Present	OHSU-PSU School of Public Health Student Affairs Committee
2023	OHSU-PSU School of Public Health Scholarship Review Committee

University of Michigan

2018 - 2022	UM School of Public Health PhD Student Assembly (SPhD), President and Biostatistics Student Representative
2020 - 2022	UM Biostatistics Conflict Resolution Committee, Founder and President
2018 - 2022	UM School of Public Health PhD Student Assembly (SPhD), President and Biostatistics Student Representative
2018 - 2022	STATCOM (Statistics in the Community), Member
2017 - 2022	UM Biostatistics Department Peer Mentoring Committee, Peer Mentor
2016 - 2022	UM Biostatistics Student Association, Member
Fall 2021	UM School of Public Health Discussion Panel: "Picture a Scientist", Panel Question Developer
2020 - 2021	UM Biostatistics Student DEIJ Committee, Member
2019 - 2020	UM Biostatistics Admissions Committee, Student Representative
2019	UM Biostatistics First Year Retreat, Student Counselor
2017 - 2018	UM School of Public Health Student Assembly, Biostatistics Student Representative

Additional Training

2024 - Present	Grant Writing Village OHSU-PSU School of Public Health
2024	Foundations of Data Equity We All Count
2024	Data Equity Primer Workshop We All Count

2024	Progressive Pedagogy Workshop OHSU-PSU School of Public Health
2023 - Present	Assessment Academy Book Club Teaching and Learning Center Assessment Academy, Oregon Health & Science University
2022	Preparing for Careers in Teaching Statistics and Data Science Section on Statistics and Data Science Education, American Statistical Association
2022	Preparing Future Faculty Program Center for Research on Learning and Teaching, University of Michigan, Ann Arbor, MI
2022	Pedagogical Methods for Biostatistics Course University of Michigan, Ann Arbor, MI
2021-2024	Mentoring Program: Section on Statistics and Data Science Education American Statistical Association
2021	Diversity and Inclusive Teaching (DIT) Workshops University of Michigan, Ann Arbor, MI
2020-2021	UM Graduate Teacher Certificate University of Michigan, Ann Arbor, MI
2020-2021	Rackham Professional Development Diversity, Equity, and Inclusion Certificate University of Michigan, Ann Arbor, MI
2020	Electronic Conference on Teaching Statistics (eCOTS) Preparing to Teach Workshop Virtual Conference

Professional Memberships

2021 - Present	International Biometric Society
2020 - Present	Consortium for the Advancement of Undergraduate Statistics Education
2020 - Present	International Society to Advance Alzheimer's Research and Treatment
2019 - Present	American Statistical Association