

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

2025

Instructor on Record, Introduction to R, OHSU-PSU School of Public Health

2025

Instructor on Record, Wearable Device Data, OHSU-PSU School of Public Health

2024 - Present

Instructor on Record, Biostatistics 1, OHSU-PSU School of Public Health

2024 - Present

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

2025	Transforming the Student Experience Award, Teaching and Learning Center, Oregon Health & Science University
2025	Faculty of the Year, Student Leadership Council, OHSU-PSU School of Public Health
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] *Analysis of Wearable Technology Devices Data*, Native American Research Centers for Health (NARCH) Training Grant Program, 2025.
- [2] *Data equity in biostatistics education: development and dissemination of a new open-access teaching data resource*, OHSU Symposium on Educational Excellence, 2024.
- [3] *Inclusive teaching in Statistics: development of a new open-access teaching data resource*, Electronic Conference On Teaching Statistics, 2024.
- [4] *Inclusive teaching in biostatistics: development of a new open-access teaching data resource*, ASA Oregon Chapter Meeting, 2024.
- [5] *Empowering Educators with DEIJ Datasets: A Journey of Transformation*, OHSU-PSU School of Public Health Faculty Spotlight Series, 2023.
- [6] *Analysis of Wearable Technology Devices Data*, Native American Research Centers for Health (NARCH) Training Grant Program, 2023.
- [7] *Imputing and Summarizing Multiple Correlated High-Frequency Digital Biomarkers*, Eastern North American Region International Biometric Society, 2023.
- [8] *Implementing Different Imputation Pipelines for High-Frequency Digital Biomarkers with Missing Data and Lower-Frequency Binary Outcomes*, Joint Statistical Meetings, 2022.
- [9] *Analysis and Summarization Pipeline for High frequency Predictors with Missing Data and Lower frequency Binary Outcomes*, Eastern North American Region International Biometric Society, 2022.
- [10] *Journal Articles: How to search, read and organize them?* Biostatistics Brown Bag Meetings, 2021.
- [11] *Race/Ethnicity and Statistical Genetics*, UM Biostatistics DEI Journal Club, 2021.
- [12] *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

Completed

2024 - 2025

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.

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

Alzheimer's Research & Therapy

Academic Service

2023 - Present

American Statistical Association Representative for the Oregon Chapter

Oregon Health & Science University

2024 - Present

Biostatistics Curriculum Committee

2025

Presentation Judge, OHSU-PSU School of Public Health Student Conference

2024 - Present

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 - Present

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

2025 - Present	Society for Clinical Trials
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