

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

Areas of Scholarly Interest

- **Equity-centered trauma-informed pedagogy in statistics education:** researching, writing, disseminating on ways professors can improve inclusivity in their courses
- **Design and analysis of pragmatic trials:** designing studies and analysis plans for clinical trial interventions in real-world settings

Professional 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

Honors and Awards

2026	Educator Success Grant , Oregon Health & Science University
2026	Faculty of the Year Nomination , Student Leadership Council, OHSU-PSU School of Public Health
2026	Faculty Excellence Award in Teaching Nomination , Student Leadership Council, OHSU-PSU School of Public Health
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

Articles

- [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.

Proceedings

- [1] **Wakim NI**, "Guidelines for a more inclusive statistics and data science classroom through trauma-informed pedagogy," *International Association for Statistical Education*, Jul. 2026.

Presentations

Oral

- [2] *Guidelines for a more inclusive statistics and data science classroom through trauma-informed pedagogy*, International Conference On Teaching Statistics, Jul. 2026.
- [3] *Trauma-Informed Pedagogy in Statistics: Actionable Guidelines to Enhance Engagement and Learning*, Electronic Conference On Teaching Statistics, Jun. 2026.
- [1] *Trauma-informed pedagogy in biostatistics: guidelines to improve student engagement and learning*, OHSU Symposium on Educational Excellence, May 2026.
- [4] *Analysis of Wearable Technology Devices Data*, Native American Research Centers for Health (NARCH) Training Grant Program, 2025.
- [5] *Data equity in biostatistics education: development and dissemination of a new open-access teaching data resource*, OHSU Symposium on Educational Excellence, 2024.
- [6] *Inclusive teaching in Statistics: development of a new open-access teaching data resource*, Electronic Conference On Teaching Statistics, 2024.
- [7] *Inclusive teaching in biostatistics: development of a new open-access teaching data resource*, ASA Oregon Chapter Meeting, 2024.
- [8] *Empowering Educators with DEIJ Datasets: A Journey of Transformation*, OHSU-PSU School of Public Health Faculty Spotlight Series, 2023.
- [9] *Analysis of Wearable Technology Devices Data*, Native American Research Centers for Health (NARCH) Training Grant Program, 2023.
- [10] *Imputing and Summarizing Multiple Correlated High-Frequency Digital Biomarkers*, Eastern North American Region International Biometric Society, 2023.
- [11] *Implementing Different Imputation Pipelines for High-Frequency Digital Biomarkers with Missing Data and Lower-Frequency Binary Outcomes*, Joint Statistical Meetings, 2022.
- [12] *Analysis and Summarization Pipeline for High frequency Predictors with Missing Data and Lower frequency Binary Outcomes*, Eastern North American Region International Biometric Society, 2022.
- [13] *Journal Articles: How to search, read and organize them?* Biostatistics Brown Bag Meetings, 2021.
- [14] *Race/Ethnicity and Statistical Genetics*, UM Biostatistics DEI Journal Club, 2021.
- [15] *Hot deck imputation for accelerometer data*, Michigan Statistics for Individualized-healthcare Lab Meeting, 2020.

Poster

- [1] *Community-engaged research partnerships for building capacity and training in inclusive data science*, OHSU Symposium on Educational Excellence, 2024.
- [2] *Hourly, Daily, Weekly or Monthly? Choosing the right data granularity for analysis of digital biomarker trajectories*, Alzheimer's Association International Conference, 2020.
- [3] *Choosing the right time granularity for analysis of digital biomarker trajectories*, Joint Statistical Meetings, 2020.
- [4] *Novel Clustering Method to Handle Outliers in Single Cell RNA Sequencing Data*, NHGRI Research Training and Career Development Annual Meeting, 2018.

Grants and Contracts

Active

2026 - Present

1UG3CA309489-01 (PI Davis)

Role: Co-Investigator / Biostatistician

The BUNDLE study will adapt proven single-cancer outreach strategies into a multicomponent intervention targeting all USPSTF-recommended screenings (colorectal, breast, cervical, and lung), engaging 18+ primary care clinics and 1,600+ patients across Oregon and North Carolina. Using a six-year cluster randomized trial design, the study aims to achieve a 10% or greater increase in screening completion while evaluating cost-effectiveness and the multilevel factors that influence screening behavior.

2026 - Present

3OT2OD038368-01S1 (PI Davis)

Role: Biostatistician

The PRaCTiCe Network Research Hub partners with rural clinics across six Western states to support primary care research, education, and technical assistance. Through four cores, Community Engagement, Recruitment & Trials, Data Coordination, and Communications & Dissemination, it facilitates participant recruitment, codesigns studies, and strengthens rural research infrastructure. The network aims to enhance primary care engagement, implement research advances, and improve health outcomes in rural communities.

2025 - Present

5R01AG082931-02 (PI Dorr)

Role: Biostatistician

The MC COMPARE project uses aggregated EHR data via the eCarePlan application to improve care for patients with multiple chronic conditions. It aims to quantify risks, support personalized decisions, and enhance clinical trial outcomes by harmonizing data from multiple sources and engaging patients and providers.

Completed

2024 - 2025

1R25GM150166-01 (PI Marriott)

Role: Biostatistician

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.

Professional Service

Academic Service

2025 - Present

ASA Section on Statistics and Data Science Education Mentoring Committee

2025 - Present

American Statistical Association Oregon Chapter Treasurer

2026 Statistics Judge, Northwest Science Expo
 2023 - 2025 American Statistical Association Representative for the Oregon Chapter

OHSU-PSU School of Public Health

2026 SPH Catalyst Awards Reviewer
 2026 - Present Biostatistics Admissions Committee
 2025 - Present Founder of Writing Group for Early Career Faculty
 2025 - Present Research Committee
 2024 - Present Biostatistics Curriculum Committee
 2024 - Present Epidemiology Curriculum Committee
 2023 - Present Biostatistics Comprehensive Exam Committee
 2023 - Present Scholarship Review Committee
 2025 Strategic Planning Committee
 2025 Presentation Judge, OHSU-PSU School of Public Health Student Conference
 2025 Biostatistics Representative at Admitted Students Night
 2025 Attended Assistant Dean of Enrollment Management Job Talks
 2024 - 2025 Biostatistics Representative at Assessment Reporting Day
 2023 - 2025 Student Affairs Committee

OHSU

2025 Faculty Senate Award Committee

PSU

2025 Panelist, STEM Day

Reviewing

2026 Wiley Publications Research Integrity
 2026 International Conference on Teaching Statistics
 2024 - 2025 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*

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

Professional Memberships

2025 - Present	International Association for Statistical Education
2021 - Present	International Biometric Society
2020 - Present	Consortium for the Advancement of Undergraduate Statistics Education
2019 - Present	American Statistical Association
2025	Society for Clinical Trials
2020 - 2023	International Society to Advance Alzheimer's Research and Treatment

Teaching

Instruction

2026 - Present	Instructor on Record , Introduction to R, OHSU-PSU School of Public Health
2026	Instructor on Record , Introduction to Python for Health Data Science, OHSU-PSU School of Public Health
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
2025	Instructor on Record , Wearable Device Data, OHSU-PSU School of Public Health
2024 - 2025	Instructor on Record , Biostatistics 1, OHSU-PSU School of Public Health

Guest Lectures

2024 - Present	Guest Lecturer on Missing Data, Applied Biostatistics II, OHSU Humans Investigations Program
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

Assistantships

2025	Teaching Assistant , OCTRI BERD R/Quarto Workshop, OHSU
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

Mentorship

Grant Study Design & Analysis Mentor

2026	PI: Emily Ho Grant title: Sulforaphane Supplementation to Support Resilience to Wildfire Smoke Exposure: Impacts on Detoxification, Microbiome, Cognition, and Whole Person Health
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Dissertation Committees

2025 - Present	Madysen Schreiber Dissertation: Malaria during pregnancy: Patterns, drivers, and effects of treatment-seeking behaviors among pregnant women of Bioko Island in Equatorial Guinea Role: Committee Member
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Practice Experience Study Design & Analysis Mentor

2026	Sophia Mann Project: An analysis of long-term immunity following yellow fever vaccination
2026	Ashlyn Bailey Project: OHSU-PSU School of Public Health Annual Student Survey: An Equity-Focused Analysis on Student Satisfaction
2026	Théo Caldwell Project: Exploring Virus-Specific Antibody Decay: The Yellow Fever–Measles Neutralizing Antibody Index Over Time
2025	Hunter Ladd Project: Finding Home Again

Study Design & Analysis Mentor

- 2026 - Present Jared Cloutier, Gabriella Macera, Alexa Stefanko
Project: Are Comorbidities Associated with How Americans Get Primary Care? A Cross-sectional study with NHANES 2021-2023
- 2024 - 2025 Shabir Sarwary, MPH
Dissertation: Association Between Region of Birth and Risk of Poor Cardiovascular Health: Findings from the National Health Interview Survey (2014-2018)
- 2024 Ariel Weingarten, MS
Project: Nonparametric analysis of continuous outcomes

Miscellaneous Mentorship

- 2025 Charles Parker
Career and Ph.D. planning
- 2025 Sheetal Akula
Career and program planning
- 2025 Mickey (Amy) McVeety, Vincenzo Cornacchione
Assisted with EPI 536 TA work
- 2025 Vero Underwood Carrasco, Emma Leary, Emily Winters
Career planning and help with EPI 536 work
- 2024 Tia Vafeas, MPH
Career planning

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 **Faculty Success Program**
National Center for Faculty Development and Diversity
- 2023 **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