

## **CURRICULUM VITAE**

### **Olivia G. Lindberg**

Cleveland, OH 44106

olivia.lindberg@case.edu

## **EDUCATION**

**Doctor of Philosophy in Epidemiology and Biostatistics**  
Case Western Reserve University, *Cleveland, OH*

**2024 – Present**

**Bachelor of Science in Biostatistics**

The Pennsylvania State University, *University Park, PA*  
GPA: 3.610

**2020 – 2024**

## **PROFESSIONAL AND RESEARCH EXPERIENCE**

**Undergraduate Research Assistant**

**December 2022 – December 2023**

Sleep, Health & Society Collaboratory, University Park, PA

- Investigate human subject data related to sleep, health, and aging.
  - Translate codebook for Einstein Aging Study into RMarkdown files.
  - Conduct exploratory data analysis to guide statistical analysis comparing cortisol levels and lifestyle factors.
- Collaborate with graduate students and staff to meet project deadlines.

**Summer Institute in Biostatistics (SIBS) Intern**

**June 2023 – August 2023**

University of Colorado Anschutz Medical Campus, Aurora, CO

- Concurrently took a 6-week accelerated graduate course in biostatistics and contributed to a research project in the Hendricks Lab.
  - Leveraged deep phenotyping and genotyping data to identify latent environmental determinants of health.
  - Developed and executed an independently designed analysis plan using simulations, multivariate modeling, and unsupervised machine learning techniques in R.
  - Created and presented poster to Department of Biostatistics at CU Anschutz.
  - Mentored other students on statistical methods and applications in R.

**Center for Clinical Cancer Informatics and Data Science Intern**

**June 2022 – August 2022**

The Warren Alpert Medical School at Brown University, Providence, RI

- Continued working under Dr. Jeremy Warner through relocation to Brown University on paper entitled “Patterns of co-first and co-last authorship in cancer phase 3 trials.”
  - Identified duplicates in dataset using computational techniques such as string distance.
  - Gender mapping for authors using census data.
  - Led analysis plan.

**Undergraduate Research Assistant**

**September 2021 – May 2022**

Health Analytics Collaboratory, University Park, PA

- Cleaned 112,074 observations from electronic health record (EHR) data with Apache Spark in Python.
- Wrote and troubleshooted code in R to investigate associations between colon surgery and *Clostridium difficile* infection.

**Biomedical Informatics Summer Program Intern**

**June 2021 – August 2021**

Vanderbilt University Medical Center, Nashville, TN

- Developed and presented prototype for a Google Chrome extension to detect misinformation, with the goal of improving vaccine literacy.
- Utilized RedCap in survey sampling.
- Worked under Dr. Jeremy Warner, MD, MS, FAMIA, FASCO to perform social network analysis of over 20,000 authors from oncology publication data in R.
- Visualized patterns in authorship level using packages such as “gganimate” and “ggplot” in RStudio

## **PUBLICATIONS**

James Yu, Sanjay Mishra, Sandeep Jain, **Olivia Lindberg**, Jeremy Warner, “Patterns of co-first and co-last authorship in cancer phase 3 trials.” *In Progress*.

## **PRESENTATIONS**

“Integrating Phenotyping and Genotyping Data Analysis to Uncover Latent Environmental Determinants of Health.” Presentation offered at 2023 Summer Institute in Biostatistics Poster Session, *University of Colorado Anschutz Medical Campus*, Aurora, CO. August 3, 2023.

## **PROFESSIONAL ASSOCIATIONS**

American Statistical Association (ASA)  
Mu Sigma Rho Statistics Honor Society

**May 2022 – Present**  
**May 2022 – Present**

## **COMMUNITY SERVICE**

Penn State Snowboard Club THON Chair

**September 2022 – Present**

- Lead over 200 members in Snowboard Club to fundraise for Four Diamonds.
- Raised all-time record of \$24,535 in 2023.
- Elected to primary chair role in May 2023.

Epsilon Sigma Alpha Service Organization Member

**September 2021 – Present**

- Fundraise over \$100,000 for Four Diamonds annually through bake sales, ribboning, soliciting corporate donations, etc.
- Raise over \$6,000 annually for St. Jude’s Children’s Research Hospital through rally and gala events.

## **AWARDS AND HONORS**

Math Alliance Scholar

**October 2023**

Best Use of External Data, ASA Data Fest at The Pennsylvania State University

**March 2023**

Dean’s List, Eberly College of Science

**Spring 2023**

**Fall 2022**

**Spring 2022**

**Spring 2021**

**Fall 2020**

## **CERTIFICATIONS**

CITI Responsible Conduct of Research

CITI Health Information Privacy and Security (HIPS) for Clinical Investigators

CITI Biomedical Human Subjects Research

CITI Good Clinical Practice for Social and Behavioral Research

American Council on Exercise – Certified Personal Trainer #T265453

## **SCHOLARSHIPS AND GRANTS**

Millennium Scholars Program

**May 2020 – Present**

- Full tuition, fees, room/board, and meal plan for the duration of the bachelor’s degree.

- Program designed for STEM students who will become leaders in their chosen fields and who are committed to increasing diversity in STEM-related disciplines.
- Requires senior thesis and provides academic and professional resources to prepare students graduate school.

### **OTHER WORK EXPERIENCE**

**Personal Trainer, *Penn State Campus Recreation***

**August 2021 – May 2023**

**Statistics Tutor, *Millennium Scholars Program***

**September 2022 – December 2022**

**Digitization Specialist, *University Park Undergraduate Association***

**September 2020 – May 2021**