

Jackie Lindstrom

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Education:

Doctor of Philosophy Biostatistics, University of Michigan, *Ann Arbor, MI*. | Expected 2030 | **GPA: 3.91**

Masters of Science Biostatistics, University of Michigan, *Ann Arbor, MI*. | May 2026 | **GPA: 3.91**

Bachelor of Science Chemistry (Biochemistry), Pacific Lutheran University, *Tacoma, WA*. | May 2023

Bachelor of Arts Mathematics, Pacific Lutheran University, *Tacoma, WA*. | May 2023

Minor: Hispanic Studies | **GPA: 3.96** | Summa Cum Laude, Dean's List (All Semesters)

Study Abroad: University of Oxford, England (2021) | Instituto Cultural Oaxaca, Mexico (2022)

Relevant Work Experience:

Machine Learning Summer Intern: Institute for Systems Biology, *Seattle, WA* **June 2025- Aug. 2025**

- Implemented machine learning algorithms such as Neural Nets, Naive Bayes, and Random Forest in Python to classify trials from clinicaltrials.gov into trustworthy or untrustworthy
- Mentored by Dr. Glusman (Hood Lab) via NIH NCATS Biomedical Translator Consortium
- Used Unix command line, SQL, and Git for version control
- Performed dimension reduction including PCA and UMAP as data exploration

Head Statistics Grad Student Instructor: University of Michigan, *Ann Arbor, MI*. **Aug. 2024- Present**

- Teach discussion sections for 40 students taking Introduction to Statistics for Social Sciences to guide them in building a foundation in statistical theory and data analysis with **R Studio**
- Prepare biweekly lecture review, design weekly practice problems, lead coding labs in R, hold office hours, and provide HW and exam feedback to enrich students learning
- Completed SOC 993: Teacher Training Course, gaining skills in pedagogy & curriculum planning

Associate Scientist: PPD & Vertex Pharmaceuticals, *Providence, RI* **Nov. 2023 - July 2024**

- Performed quality control and data validation using analytical instruments in the Cell and Genetic Therapies Department to ensure a novel Type 1 Diabetes device operates properly
- Utilized Laboratory Information Management Systems (LIMS) to track quality control data, followed SOPs and GMP to maintain compliance with industry standards
- Led a lab optimization project, utilizing SOP information to present findings and recommendations to management for improved lab efficiency and safety

Adjunct Professor of Biology 1: Bryant University, *Smithfield, RI* **Jan. 2024- May 2024**

- Guided students through collaborative laboratory experiments that introduces life processes
- Taught topics including scientific methodology, cells, dissection, energy and metabolism, genetics and ecology, which further strengthened my foundational biology knowledge

Volunteer Translator: Clinica Esperanza Hope Clinic, *Providence, RI* **2020-2023**

- Took vitals, document patient's medical history, and schedule appointments in Spanish
- Strived to provide the best care possible to an underserved, uninsured population of patients

Emergency Medical Technician: Med Tech Ambulance, *Warwick, RI* **June 2019 - Sept. 2020**

- Efficiently and calmly stabilized patients in medical emergencies and interhospital transport

Research and Statistical Analysis:

BIOSTAT 699 Applied Research Projects: University of Michigan, *Ann Arbor, MI* **Spring 2026**

- Associations Between Respondent Characteristics and Future Outlook (American Family Health Study): Assessed demographic predictors using cumulative probability proportional odds models
- Spatial Tumor-Immune Clustering and Survival Prediction in Head and Neck Cancer: Applied spatial and survival analysis methods
- Outdoor Light Exposure and Depression in Medical Interns: Analyzed continuous wrist-worn light exposure data using longitudinal statistical methods

Metabolomic Data Analysis: University of Michigan, *Ann Arbor, MI* **Sept. 2025- Present**

- Analyzing metabolomic data from the 30 year, collaborative study between researchers in the US and Mexico: Early Life Exposures in Mexico to ENvironmental Toxicants (ELEMENT)
- Investigate associations between socioeconomic status and youth metabolomic profiles using Item Response Theory and linear regression, identifying evidence of the nutrition transition
- Presented a one-hour causal inference seminar on prenatal BPA exposure in Spanish at the National Institute of Public Health in Cuernavaca, Mexico **(July 2026)**

Statistics in the Community (STATCOM): Volunteer Project, *Ann Arbor, MI* **Sept. 2024- Present**

- Collaborating with the Center for Success nonprofit on statistical analysis using natural language processing (NLP) and Likert scale analysis to assess student literacy program impact
- Focus on making code reproducible with my group of 4 by using Github
- Used R for data visualization, data wrangling, and analysis to present to nonprofit directors

Mathematics Senior Capstone Project: *London, England & Tacoma, WA* **Jan. 2022 - May 2023**

- Awarded the Wang Center Research Grant (\$2,500) to travel to London, culminating in a presentation to Pacific Lutheran University Math Department and 15 page written report
- Collaborated with the International Organization for Migration analyzing Iraqi migration data
- Utilized statistical softwares R to perform Principal Components Analysis to detect patterns and visualize underlying structures for assessing the needs of displaced persons

Researcher- Polymer Scientist: National Science Foundation, *Tacoma, WA* **June 2021 - May 2023**

- Collaborated with a team of 5 researchers to develop a solid polymer electrolyte to improve the safety and sustainability of Lithium-ion batteries
- Presented results at the National American Chemical Society conference in Indianapolis in selective Sci-Mixer poster event recognizing exceptional abstracts and also 30 minute oral speech

Data Fest Competitor: American Statistical Association *Tacoma, WA* **April 2023**

- Worked collaboratively to analyze real-world datasets in R through a competitive weekend event

Tutorial Final Project and Presentation: *University of Oxford, England* **August 2021- Dec. 2021**

- 1-on-1 tutorial with Oxford expert culminating in research poster and presentation titled “Skin α -Synuclein Aggregation Seeding Activity as a Novel Biomarker for Parkinson’s Disease”

Clean Energy Institute Researcher: University of Washington, *Seattle, WA* **June 2020 - Sept. 2020**

- Conducted summer computational study with Dr. Jenekhe’s lab using Density Functional Theory modeling to investigate the electronic structure of organic materials for use in electronic devices

Awards:

UMichigan Biostatistics Dept. Scholarship: Awards academic achievement, 4 terms **2024-2026**

Chemist of the Year: Issued by The American Institute of Chemists **2023**

PLU Regents Scholarship: Full tuition merit based award to support 4 years of education **2018 - 2023**

Seal of Biliteracy in Spanish: Signifies fluency in speaking, writing, and reading **2018, 2022**

Service Above Self Award: Issued by the Rotary International recognizing volunteer work **2018 - 2022**

South County Hospital Medical Staff Scholarship: Awarded for health science potential **2018**

Girl Scout Gold Award: Service project to restore school courtyard and remove invasive species **2018**

Software: R, Python, C++, SAS, Java, Unix, LaTeX, Beamer, Microsoft Office, Word, Excel, Gaussview, LIMS, Git, SQL

Leadership:

Alumni Relations Committee: University of Michigan, *Ann Arbor, MI.* **Sept. 2025- Present**

Ultimate Frisbee Coach: Disc Northwest, *Tacoma, WA* **Sept. 2022 - May 2023**

Volunteer Trip Leader: Outdoor Recreation at PLU, *Tacoma, WA* **Dec. 2018 - May 2023**

- Led groups of ~10 PLU students on skiing, hiking, surfing, and other outdoor adventure trips

Captain of PLU Women’s+ and Mixed Ultimate Frisbee Teams, *Tacoma, WA* **Sept. 2022 - May 2023**