Jackie Lindstrom

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https://www.plu.edu/news/archive/2023/05/23/oxford-england-oaxaca-mexico-jackie-lindstrom-math-chemistry/

Education:

Master of Science Biostatistics, University of Michigan, *Ann Arbor, MI.* | May 2026 | GPA: 3.84
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

Statistics Graduate 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 concepts and data interpretation
- Prepare biweekly lecture review, design weekly practice problems, 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: 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, 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:

STATCOM (Statistics in the Community)- 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 in a group of four to analyze uncleaned, 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 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
- Selected from competitive national applicant pool

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, LaTeX, Beamer, Microsoft Office, Word, Excel, Gaussview, LIMS, Git, SQL

Leadership:

Ultimate Frisbee Coach: Disc Northwest, *Tacoma, WA* **Sept. 2022 - May 2023**
- Coached 10-20 middle and elementary students frisbee for a free after school program
- Structured practices to incorporate games, communication building, and playful movement

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**
- Planned and ran practices, initiated recruitment events, and served as a resource for players

Relevant Coursework:

Biostatistics 601: Probability and Distribution Theory: Distributions, sampling theory
Biostatistics 650: Applied Statistics I: Linear Regression
Biostatistics 651: Theory and Application of Generalized Linear Models
Epidemiology 600: (Various study designs (cross-sectional, cohort, case-control, randomized experiments) and measures of association, clinical trial design)
Biostatistics 607: Computing in R, Python, and C++ for data processing, data visualization, and UNIX skills
Math 348: Statistical Computing and Consulting
Biostat 626 Machine Learning for Health Sciences