Ellie Mercedes Ross
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PROFESSIONAL SUMMARY

Data-driven researcher with expertise in **quantitative and qualitative analysis, computational methods, and science communication**. Skilled in **Python, R, advanced statistics, qualitative research methods, and data visualization** to drive insights in **open science, peer production, and digital communication**. Strong background in **teaching, public speaking, and interdisciplinary collaboration**.

EDUCATION

M.A., Communication – University of Washington *(June 2025)*

- Certificate in Statistics | Concentration in Computational Methods

B.A., Communication – University of California, Davis *(June 2022)*

- Emphasis in Information Communication Technology

B.A., Russian Language – University of California, Davis *(June 2022)*

- Russian Philosophy, Culture, and Advanced Language Studies

TECHNICAL & ANALYTICAL SKILLS

- **Data Analysis & Programming:** Python (NumPy, Pandas, Matplotlib), R (ggplot2, tidyverse)
- **Statistical & Qualitative Methods:** Multilevel/hierarchical modeling, regression analysis, time series analysis, survey design, content analysis
- **Data Visualization & Communication:** Advanced dashboard creation, interactive visualizations
- **Software & Tools:** Unix/Linux, Git, SQL, Jupyter Notebooks
- **Teaching & Communication:** Public speaking, instructional design, report writing, feedback delivery

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PROFESSIONAL EXPERIENCE
Research Associate, Community Data Science Collective Lab

University of Washington | Sept 2022 – Present

- Conduct advanced **data analysis using Python and R**, specializing in **predictive modeling, regression, and time series analysis** for peer production communities.
- Manage **Git repositories and Unix/Linux systems** to streamline data processing and automation.
- Develop interactive **data visualizations** to present research insights.
- Conduct **literature reviews** to identify gaps in open science and digital collaboration research.

Teaching Assistant, University of Washington

Sept 2023 – Present

- Lead **workshops and discussion sections** to reinforce key concepts in **public speaking and communication theory**.
- Evaluate **75+ student assignments per quarter** using **self-developed rubrics**, providing detailed, constructive feedback.
- Maintain **accurate student performance records**, using data-driven insights to refine teaching strategies.

Public Speaking Instructor, University of Washington

June – Aug 2024

- Designed and taught an **asynchronous public speaking course**, developing a **structured curriculum** and video lectures.
- Provided detailed **performance assessments and feedback** to enhance student presentation skills.

Front Desk Attendant & Informal Technical Consultant, Tennis Center Sandpoint

Sept 2023 – Present

- **Developed automation tools** to optimize scheduling and improve operational efficiency:
  - **Tab Auto-reloader:** Ensured up-to-date scheduling.
  - **IP Block Timer:** Enforced fair court usage policies.
  - **POS Shortcuts:** Enhanced transaction speed.
- Provided **customer service and technical support**, resolving scheduling conflicts efficiently.

Research Assistant, Cognitive Communication Science Lab

University of California, Davis | Sept 2020 – June 2022

- Conducted **EEG experiments**, collecting and analyzing **neuroscience and behavioral data**.
- Designed and administered **surveys** for cognitive science research, ensuring validity and reliability.
- Conducted **content analyses** to examine patterns in communication and cognitive processes.
- Managed large datasets, cleaning and structuring data for **both quantitative and qualitative analysis**.

Florist & Business Consultant, G Rossi Florist

Sept 2014 – Sept 2019

- Assisted **Russian-speaking clients**, providing personalized service.
- Designed **seasonal floral products** and staple arrangements for **funerals, weddings, and the company website**.
- Managed **wedding floral designs**, collaborating with clients to create custom arrangements.
- Migrated company's **POS system**, reducing costs and improving transaction speed.
- Trained owners in **product photography and digital marketing strategies**.

HOBBIES & INTERESTS

- **Multilingual Travel:** Russian & Spanish immersion experiences.
- **Community Sports:** Sailing, windsurfing, cycling, skiing.
- **Triathlon Training:** Building endurance and resilience.