Payton Miloser

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Professional Summary

Established statistician with over 5 years of experience. Highly skilled in geostatistical analysis, bringing a comprehensive range of statistical expertise to every project. Adept at leveraging advanced statistical techniques to derive actionable insights and support data-driven decision-making. Open to local and international opportunities with a focus on environmental/ecological statistics.

Skills

Techincal

- **Programming & Software**: R (expert), SAS (proficient), Python (beginner), Julia (beginner), JMP, Excel, GIT, LateX
- **Awards**: Graduate Teaching Excellence Award (2024), Vera David Graduate Fellowship (2023) Info ⧉
- **Languages**: Spanish (basic), French (reading/writing), Russian (basic)

Education

MSc	**Iowa State University**, Statistics *Master of Science*	Aug 2022 – June 2024

- **Thesis**: : "Assessing Spatial Consistency using Spatio-Temporal Interactions with Generalized Additive Models" Thesis ⧉
- Advisor: Dr. Philip Dixon CV ⧉

BSc	**Grand Valley State University**, Statistics with Honors *Bachelor of Science*	Aug 2018 – April 2022

- Minors: Mathematics and Philosophy
- **McNair Scholar**, "Bio-Surveillance of Covid-19 Data using Statistical Process Control", Advisor: Dr. Paul Stephenson Manuscript ⧉

Experience

Iowa State University, Instructor, Researcher, & Advisor   — Ames, IA / Aug 2022 – Present

- **Instructor**: Taught ~ 300 students across 6 semesters statistical methodology based in engineering, business, and general fields of study
  - Wrote and conducted lessons, exams, and actively applies feedback from students and faculty to improve constantly as an instructor
- **Researcher**: Consulted on a survey-based analysis to study modeling of Energy data based on surveys on green energy and energy policy
- **Advisor**: Provided Statistical guidance and analytical techniques to 13 undergraduate students on projects involving predictive modeling, biostatistical analysis, geostatistical analysis, forensic statistics

LG Chem (LGCMI), Process Technology and Assembly Intern   — Holland, MI / June 2020 – Aug 2020

- Completed analysis using quality control statistics on Lithuium - Ion battery production and finished multiple projects related to improving production
- Gained experience working as a statistician with a team of engineers in a fast-paced environment with cross-cultural interaction with the Korean parent company

Leadership

STAT-ers President, Graduate Student Organization   May 2024 – Present
Iowa State University

- Provided strategic leadership and oversight of graduate student initiatives in the Department of Statistics
- Spearheaded the planning and execution of departmental events that promoted student engagement, wellness, and collaboration, including orientation socials, cultural celebrations, and faculty-student mixers
- Inspired board members and community members to engage in new projects and create a foundation for future club members

Graduate and Professional Student Senator, Graduate Student Organization   May 2023 – May 2024
Iowa State University

- Advocated for the Statistics Department within the greater graduate student community
- Levied funding and votes in support of the Statistics Department and student organizations