Lea Frank, Ph.D.

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Quantitative researcher with a passion for data analysis and storytelling. Background in cognitive neuroscience and specialized knowledge of human memory and generalization. Demonstrated experience in project management, cross-functional collaborations, using statistical analysis to draw meaningful insights, connecting findings to broader knowledge, and communicating complex information to technical and non-technical audiences.

EDUCATION

Ph.D. in Psychology | University of Oregon 2017 - 2022
Specialization in Educational Data Science | University of Oregon 2017 - 2022
M.S. in Psychology | University of Oregon 2016 - 2017
B.A. in Psychology | Marist College 2014 - 2016

WORK EXPERIENCE

Data Science Mentor in Education | RStudio Academy April 2022 - Present
- Facilitate discussions and answer questions regarding R programming tutorials and projects

Graduate Student Researcher | University of Oregon September 2016 - Present
- Identify problems or gaps in current knowledge and generate research questions to address them
- Design and implement behavioral and functional MRI experiments to answer research questions
- Manage a team of student research assistants and mentor students on independent projects

Teaching Assistant | University of Oregon September 2017 - December 2020
- Designed course material for undergraduate statistics courses, including generating test questions, example problems, and hands-on learning activities
- Moderated discussions of course material and demonstrated how to use statistical software (SPSS and jamovi)

Research Assistant | Kessler Foundation August 2014 - August 2016
- Recruited participants and maintained ongoing relationships for future studies; conducted cognitive assessments, behavioral questionnaires, and MRI scans with neurologically impaired populations; entered and maintained databases
- Assisted with the design and development of virtual reality-based treatments for cognitive and balance impairments; required cross-functional collaborations with researchers from clinical psychology, bioengineering, and human physiology

QUALIFICATIONS & SKILLS

Project management
- Proven ability to lead independent projects through to completion
- Successfully managed multiple concurrent projects while fulfilling teaching and course requirements
- Adept with translating high-level instructions and questions into concrete and goal-directed steps

Written & oral communication
- Disseminated key research findings via conference presentations and publications
- Strong record of presentations with technical audiences at conferences, seminars, and journal clubs
- Ability to communicate technical concepts to non-expert audiences during classes and outreach events with community members

Data analytics

- Ability to draw insights from data and connect those findings to broader knowledge
- Experience using statistical software (R, Matlab, Python, SPSS, jamovi) to conduct A/B hypothesis testing, machine learning, general linear modeling, and structural equation modeling
- Well-versed in data visualization techniques to highlight key findings

Technical skills

- Languages – proficient in R and Matlab; experience with SQL, Python, Bash, JavaScript
- Programming – version control with Git, data manipulation and engineering, cloud computing, Linux, shell scripting, dashboards for data visualization and storytelling, developing packages for R functions
- Web development with Blogdown, Distill, Hugo and some experience with CSS