

# Lea Frank, Ph.D.

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## ABOUT ME

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Cognitive scientist with 8+ years of experience in leading independent and collaborative projects, using statistical analysis to generate insights, and presenting key findings and recommendations to cross-functional audiences. I am inherently curious, a determined problem solver, and passionate about my work.

## EDUCATION

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**Ph.D. in Cognitive Neuroscience** | 2017 – 2022  
**Specialization in Educational Data Science**  
University of Oregon, Eugene, OR

**M.S. in Cognitive Neuroscience** | 2016 – 2017  
University of Oregon, Eugene, OR

**B.A. in Psychology** | 2010 – 2014  
Marist College, Poughkeepsie, NY

## EXPERIENCE

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**Data Science Mentor in Education** | RStudio Academy Apr 2022 – Present

- Mentor various functional teams (e.g., finance, biological science) to learn data science with R
- Convey complex programming concepts and facilitate discussions to aid in learning

**Graduate Researcher** | University of Oregon Sept 2016 – Present

- Spearheaded 8 end-to-end projects using remote and in-person experiments to understand memory-guided decision making
- Translate ambiguous research objectives into actionable steps for experimentation and analysis
- Use statistical analysis to generate meaningful insights from data and synthesize findings to make evidence-based recommendations to stakeholders
- Build reproducible data pipelines to streamline the wrangling and analysis of big data
- Presented the key takeaways and impacts of my research at 10 conferences (expert audiences) and 9 community outreach events (non-expert audiences)
- Authored and co-authored 4 research reports, one of which received an award for best paper of the year
- Mentored 7 researchers to conduct their own research project, including experimental design, statistical analysis, and presentation of their findings

**Teaching Assistant** | University of Oregon Sept 2017 – Dec 2020

- Designed course material that considered the needs and knowledge of the students
- Lead lectures and discussions of course material, which refined my ability to convey complex information to non-expert students

**Researcher** | Kessler Foundation Aug 2014 – Aug 2016

- Collaborated with cross-functional teams to develop standardized research protocols that streamlined data collection
- Conducted usability testing and user interviews to improve the functionality and design of virtual-reality-based treatments for cognitive and balance impairments

## SKILLS

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### Technical skills

- R, Python, SQL, and Bash/shell scripting
- data visualization with dashboards & markdowns
- independently developed R packages
- collaborations & version control with Git
- cloud computing with the university's HPC cluster
- Unix/Linux systems

### Data analytics & data mining

- correlations, t-tests, ANOVA/ANCOVA
- chi-squared
- mediation & moderation analysis
- multilevel modeling
- linear, logistic, & penalized regression
- clustering & factor analysis
- machine learning