

# Stephanie M. Sherman, Ph.D.

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## Education

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<b>Ph.D. in Cognitive Neuroscience</b> , The University of Texas at Austin, Austin, TX	<b>2016</b>
<b>B.S. in Psychology</b> , Summa Cum Laude, University of Arizona, Tucson, AZ	<b>2011</b>

## Technical Skills

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**Tools:** Python, R, Bash scripting, SQL, Postgres, Git, AWS, Flask, LaTeX

**Methods:** linear and logistic regression, mixed linear models, multivariate statistics, statistical inference, mediation models

## Experience

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<b>Fellow</b> , Insight Data Science, New York, NY	<b>2017</b>
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- Created an interactive Flask web application to identify factors contributing to the gender pay gap
- Built and queried a Postgres database to dynamically deliver data for visualization
- Developed statistical models in python to quantify the independent contribution of gender to salary

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<b>Postdoctoral Research Fellow</b> , Boston College, Chestnut Hill, MA	<b>2016 - 2017</b>
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- Led National Science Foundation study investigating how sleep and stress affect emotional memory
- Wrote interactive python scripts to allow non-technical users to process functional MRI data
- Created R markdown reports to dynamically produce experimental results during data collection
- Implemented a python pipeline to quantify the change in brain connectivity after stress condition
- Managed team of graduate students and researchers to collect and analyze data
- Streamlined data collection and analyzed online surveys to reduce unsystematic errors

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<b>Data Analysis with R Instructor</b> , The University of Texas at Austin, Austin, TX	<b>2014 - 2015</b>
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- Taught data manipulation, preprocessing, analysis, and graphing
- Demonstrated the use and practical application of linear regressions, ANOVA, and mixed models
- Created syllabus, planned lessons, and held office hours
- First Ph.D. candidate to teach graduate-level statistics course using R

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<b>Graduate Researcher</b> , The University of Texas at Austin, Austin, TX	<b>2011 - 2016</b>
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- Designed and implemented experiments examining how sleep affects memory across the lifespan
- Applied mixed linear regressions and random walk models to describe memory performance
- Wrote R and bash scripts to analyze behavioral, neuroimaging, and accelerometer data
- Mentored diverse group of research assistants on their experimental design and analyses
- Published six peer-reviewed papers, gave three invited talks, earned three dissertation grants
- Awarded Statistics Fellowship to create machine learning algorithm to improve sleep detection