

# Jessica Hooker, Ph.D.

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## SKILLS

**Programs & Languages:** R, Python, IBM SPSS, Mplus, SQL, Excel, Tableau.

**Libraries:** ggplot, stats, psych, caret, nlme, pandas, numpy, matplotlib, sklearn

**Statistical Skills:** Hypothesis testing, Generalized linear modeling, ANOVA, Longitudinal analysis, Mediation, Moderation, Multivariate analysis, Dimension reduction, Machine learning.

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## PROFESSIONAL EXPERIENCE

### PRIMARY DATA SCIENTIST - POSTDOCTORAL RESEARCHER

Florida State University - Autism Institute, Tallahassee, FL

Jan 2020 - Present

- Conducts data analysis and presents insights to stakeholders across multiple projects.
- Used supervised machine learning models of clinical data to identify valuable attributes and inform development of a streamlined detection process for identifying children with autism.
- Analyzed screening tool data to optimize the item set and improve the accuracy of the algorithm for identifying children at risk.
- Partners with a biostatistician to develop methodology and statistical analysis plans.
- Provides oversight and consultation to the data coordination team and external collaborators.
- Established and oversees data quality assurance of research data.
- Collaborates to establish efficient work-flows and proper data collection for clinical trials.
- Directly engages in all stages of data project pipeline across multiple active projects.
- Analyzed clinical trial data to provide insights into treatment effectiveness and explore potential mechanisms for improved treatment response.
- Serve as data science lead on peer reviewed manuscripts and conference presentations.

### GRADUATE RESEARCHER

Florida State University, Tallahassee, FL

Aug 2014 – Dec 2019

- Completed an area of specialization in complex statistical modeling.
- Conducted independent and collaborative research and data analysis projects.
- Used latent variable modeling to examine items on a parent-report measures to inform refinement and optimization for future validation studies.
- Conducted linear modeling to analyze and interpret data from a large-scale intervention trial, demonstrating significant results in favor of the target treatment.
- Worked as a technical working group member to review international clinical guidelines on the treatment of autism as part of the WHO Rehabilitation 2030 initiative.

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## EDUCATION

### Ph.D. in Communication Science and Disorders

Dec 2019

Florida State University, Tallahassee, FL

### M.S. in Speech-Language Pathology

Aug 2015

Florida State University, Tallahassee, FL