

# Katherine Chia, M.S.

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## SKILLS

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- **Skills:** Quantitative and qualitative research methodologies; research design; project management; public speaking; technical writing; Microsoft Excel; R; SPSS; EEG; Python; SQL; natural language processing; data visualization; survey research; computational modeling; eye-tracking.

## WORK EXPERIENCE

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### “R for Data Science” Course

Aug 2021 – Present

*Data Science Instructor*

*Tallahassee, FL*

- Conceptualizes curriculum for an undergraduate introductory series to R for data science.
  - Develops materials covering workflow, data visualization, data importing, data tidying, and modeling.
- Delivers lectures using weekly to class.
  - Demonstrates how to design notebook-based code using Markdown and Rmds.
- Assists students with debugging and project conceptualization.

### Language, Learning, and Memory Lab

Aug 2016 – Present

*Lead Researcher and Data Scientist*

*Tallahassee, FL*

- Designs core strategies, handles multiple projects simultaneously, and selects research methodologies and topics.
  - Led research group to publish four language production projects in peer reviewed academic journals.
- Oversees data collection, statistical analyses (ANOVA, linear regression, multiple regression, logistic regression, cross recurrence quantification analysis), and executes using R.
  - Navigates ambiguity in data by interpreting results through visualization and proposing future directions.
- Stays current with research field, uses these findings to inform decisions, and presents conclusions.
  - Presents findings at local (4x), regional (4x), national (2x), and international (1x) conferences.

### IBM

May 2021 – Aug 2021

*Cognitive Scientist - Intern*

*Yorktown Heights, NY*

- Investigated individual differences in speech production and quantified them for analysis using R and Python.
  - Wrote Python scripts to automatically tag parts of speech and to assess speech samples.
- Examined linguistic features that were relevant for predicting current and future dementia status in a cohort of multi-ethnic and bilingual adults.
  - Collaborated closely with a team of researchers across disciplines and industries.
- Analyzed journal articles to execute feature selection and to determine future directions with research.

### Language and Cognitive Development Lab

Dec 2015 – Aug 2016

*Co-Lab Coordinator*

*Tallahassee, FL*

- Oversaw longitudinal study about language learning in infants ranging from 18 months – 4 years.
  - Administered developmental assessments and performed intake procedures (e.g., questionnaires, surveys) on participants.
- Ran eye-tracking tasks to assess child word knowledge and used these findings to generate insights.

## EDUCATION

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### Florida State University

Expected Spring 2022

*Ph.D. in Cognitive Psychology (In progress)*

*Tallahassee, FL*

### Florida State University

2018

*M.S. in Cognitive Psychology, Magna cum laude, GPA: 3.8*

*Tallahassee, FL*