Jayde Homer

 ¶ St. Louis, Missouri

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Data Analyst Skills

Communication: presentations and reports • dashboard design (Shiny, Tableau) • literate programming (R markdown, Quarto) • data visualization (Plotly, ggplot2, Excel) • website management • peer reviewer (journal, book chapter, conference)

Programming Languages: R (tidyverse) ● Python 3 ● SQL

Software Development: operating systems (MacOS, Windows) • computing environments (RStudio, JupyterLab) • experiment user interface (PsychoPy, Qualtrics) • source control (Git, Github, GNU make)

Statistics: machine learning (PyTorch, natural language processing) • data analysis • predictive modeling • quantitative description • Monte Carlo simulation • experimental design • survey methodology • Bayesian analysis (brms, rstan) • structural equation modeling • mixed effects modeling

Teaching: learning management systems (Canvas, Blackboard) • assessment design • course design

Education

2023 PhD, Psychological and Brain Sciences (ABD)

Washington University (WUSTL)

Completing dissertation; degree expected Fall 2023

Environmental and Linguistic Influences on Preschoolers' Spellings: A Quantitative Exploration of Bad Spellings

Advisor: Prof. Rebecca Treiman

Graduate Certificate in Quantitative Analysis

2020 MA, Psychological and Brain Sciences

WUSTL

Thesis title: Spelling and Reading Novel Homophones: Testing the Value of Lexical Distinctiveness

Advisor: Dr. Rebecca Treiman

2016 **BA**, Linguistics

University of Rochester

2016 BS, Brain and Cognitive Science

University of Rochester

Thesis title: Words in Isolation: An Analysis and Comparison of the SEEDLingS Corpus

Advisor: Dr. Elika Bergelson

Experience

2022-06 - Data Fellow

WUSTL Center for Teaching and Learning

present

St. Louis, MO

- Advised diverse stakeholders on technology acquisition, use, and issue resolutions by communicating findings and evidence-based action items
- Designed research study to examine student/instructor interaction styles in social annotation settings using natural language processing and machine learning
- Created parameterized reporting system for understanding student and instructor use of university-licensed educational technologies (e.g., Hypothesis, Annoto, Kaltura, Gradescope, Canvas)

2019-08 - Graduate Student Researcher

WUSTL

present

St. Louis, MO

- Trained, supervised, and advised 3 undergraduate students on their year-long honors theses, culminating in final paper and presentation
- Provided written and verbal feedback on lab member projects, manuscripts, and grant submissions

2020-05 - Private Tutor

Wyzant

present

Remote, Chicago, IL

• Tutored 500+ hours in R, statistics, and academic writing with undergraduate, Masters, and PhD students, professionals, and lifelong learners

2021-07 - Instructor

WUSTL

2021-08 St. Louis, MO

- Designed and developed online, hybrid 5-week Developmental Psychology course
- Created assessments to measure students' achievement of course objectives
- Prepared students for success on assignments and exams with well-delivered lectures that incorporated active learning strategies

Assistant to the Instructor 2019-08 -WUSTL St. Louis, MO 2022-05 Assisted instructors with grading, teaching, and classroom administrative duties (e.g., maintaining learning management system(s), preparing materials) Awarded Psychological and Brain Sciences "Assistant to the Instructor of the Year" Award in Courses: Graduate Quantitative Methods; Introductory Psychological Statistics; Experimental Psychology; History of Psychology; Psychology of Language; Developmental Psychology; Psychology of Learning 2020-05 -Consultant Tools of the Mind Remote, Denver, CO 2022-08 · Developed preschool and kindergarten spelling assessments 2016-09 -**Literacy Tutor AmeriCorps** South Bend, IN 2017-06 Tutored and mentored K-2 students in reading, writing, and spelling during after-school Boys & Girls Club (300 hours) University of Notre Dame 2016-06 -Lab Manager South Bend, IN 2018-07 Maintained lab software and hardware including 9 computers, 2 infant experiment booths, and eye-tracking video systems Developed R scripts to streamline data cleaning and analyses Coordinated data collection for up to 5 studies at a time, recruited infants and families, maintained participant database, and ran experiments Managed up to 10 undergraduate research assistants and mentored the completion of 4 independent research projects 2015-02 -**Undergraduate Research Assistant**

Rochester, NY

University of Rochester

2016-05

- Assisted with data collection: in-lab eyetracking experiments and home visits to set up video and audio recording equipment
- Annotated audio and video recordings from infants' home language environments

2014-09 -**Undergraduate Teaching Assistant**

University of Rochester

2014-12

Rochester, NY

 Graded assignments and exams; held office hours and study sessions for Introduction to Linguistic Analysis

Professional Activities and Service

2023-05 -Student LaunchCode St. Louis, MO present Studying SQL database use and administration from a practicing professional 2021-09 -Office for Student Success, WUSTL Graduate Student Resource Corps Member St. Louis, MO 2021-12 Provided free statistics tutoring, mentorship, and study groups for students who were firstgeneration or from limited socioeconomic backgrounds 2021-08 -Graduate Student Representative WUSTL Center for Teaching and Learning, Graduate Student Advisory Council 2023-05 St. Louis, MO

- Communicated graduate student teaching related issues to administrators with team of 11 other council members from various disciplines
- Organized and moderated panels for graduate students: "Claiming authority in the classroom while remaining approachable" (2022-10) and "Leveraging teaching skills in non-academic careers" (2022-02)

2021-03 - 2023-05	Professional Development in Teaching St. Louis, MO • Scholarship of Teaching and Learning Sem	WUSTL Center for Teaching and Learning
	Summer Course Design Institute	
	 EPIC Learning Community Constructing Effective Collaborative Learning Opportunities 	
• Facilitating Effective Discussions		Developed and Considerate Charles to Association and Consensition
2019-08 - 2020-07	Member St. Louis, MO	Psychology Graduate Student Association's Social Committee
	 Coordinated department happy hours, annual picnic, and managed budget and funds 	
2019-08 - 2020-07	Peer Mentor WUSTL Psychologic St. Louis, MO	al and Brain Sciences Graduate Student Peer Mentor Program
	 Advised first-year graduate student during their transition into graduate school 	
2019-06 - 2019-06	Demonstration Leader St. Louis, MO	WUSTL College Prep Program
	 Demonstrated spelling experiment, communicated basics of hypothesis testing, and offered opportunities to engage with reading science for first-generation high school scholars 	
2019-04 -	Reviewer	
2022-05	St. Louis, MOSiegler, "How Children Develop" select ch	apters: 2022-05
	Reading and Writing: 2020-08, 2022-07	
	 APS Student Caucus RiSE Award: 2020-04 APS Student Caucus Student Grant Competition: 2019-12 	
	APS Student Research Award: 2019-04	
2019-01 - 2021-05	Committee St. Louis, MO	'USTL Psychology Graduate Student Association's Social Media
	 Created and maintained website Prepared clear instructions and documentation and trained next cohort to maintain the website 	
2019-01 -		
2019-07	St. Louis, MO Coordinated events to promote and educate graduate students on diversity, equity, and inclusion issues	
2018-10 -	Volunteer	EarthDance Organic Farm School
2018-10	 Performed general farm maintenance, pla feeds local community 	anted, weeded, and harvested vegetables at farm that
2018-09 - 2018-11	Project Management Certification Program South Bend, IN	University of Notre Dame, Office of Human Resources
	 Learned management frameworks (e.g., scrum, kanban) 	
2018-09 – present	Workshop Participant St. Louis, MO	
	 Data for Good: Driving Prosperity in the St. Louis Region, hosted by WUSTL Olin Center for Analytics and Business Insights 	
	Introduction to Stuctural Equation Modeling, Curran & Bauer Garage Revolution Note Academic Covers MUSTI. Covers Contain	
	 Career Development: Exploring Non-Academic Careers, WUSTL Career Center Scientific Writing for Psychology, Prof. Robert Kail 	
	WUSTL Arts & Sciences Summer Course D	
2018-08 -	Current Member	Professional Organizations
present	 The Society for the Scientific Study of Rea American Psychological Association The Reading League	ding

Pet Refuge, Inc.

- Volunteered one 5-hour shift per week and added more shifts when possible
- Performed kennel duties such as cleaning and feeding, coordinated with team members to
 ensure safety and wellbeing of adoptable pets, and walked dogs to provide daily exercise and
 training opportunities to enhance adoptability

Publications

- 1. Homer, J., Treiman, R., & Farry-Thorn, M. (2023). *Three facets of spelling* (C. McBride, Y. Ye, T. Inoue, & M. U., Eds.). Routledge.
- 2. Homer, J., Thompson, A., & Lany, J. (n.d.). The home language environment predicts individual differences in lexical recognition at 9 months of age.
- 3. Homer, J., Hensley, K., & Treiman, R. (n.d.). Reading and spelling homophones.

Presentations

Note: * denotes conference talks and † denotes poster presentation

- 1. *Homer, J., Kessler, B., & Treiman, R. (2023). Making sense of nonsense: How u.s. Preschoolers' spellings reflect their own names, letter names, and phonological segmentation. Society for the Scientific Study of Reading.
- 2. †Homer, J. (2023). Making sense of nonsense: Influences on preschoolers' spellings. Graduate Student Senate's Graduate Research Symposium.
- 3. *Homer, J., Thompson, A., & Lany, J. (2020). Predicting lexical processing efficiency at 9 months from the home language environment: Child-directed vs. Ambient speech. Many Paths to Language; Max Planck Institute for Psycholinguistics.
- 4. †Homer, J., & Treiman, R. (2020). *Spelling and reading novel homophones*. Society for the Scientific Study of Reading.