Jayde Homer

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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

2021 — **MA, Psychological and Brain Sciences** — WUSTL
Thesis title: *Spelling and Reading Novel Homophones: Testing the Value of Lexical Distinctiveness*

2020 — **MA, Psychological and Brain Sciences** — WUSTL
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 – present — **Data Fellow** — WUSTL Center for Teaching and Learning
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 langauge 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 – present — **Graduate Student Researcher** — WUSTL
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 – present — **Private Tutor** — Wyzant
Remote, Chicago, IL
- Tutored 500+ hours in R, statistics, and academic writing with undergraduate, Masters, and PhD students, professionals, and lifelong learners

2021-07 – 2021-08 — **Instructor** — WUSTL
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

| 2019-08 – 2022-05 | **Assistant to the Instructor** | WUSTL |

St. Louis, MO

- 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 2022
- Courses: Graduate Quantitative Methods; Introductory Psychological Statistics; Experimental Psychology; History of Psychology; Psychology of Language; Developmental Psychology; Psychology of Learning

| 2020-05 – 2022-08 | **Consultant** | Tools of the Mind |

Remote, Denver, CO

- Developed preschool and kindergarten spelling assessments

| 2016-09 – 2017-06 | **Literacy Tutor** | AmeriCorps |

South Bend, IN

- Tutored and mentored K–2 students in reading, writing, and spelling during after-school Boys & Girls Club (300 hours)

| 2016-06 – 2018-07 | **Lab Manager** | University of Notre Dame |

South Bend, IN

- 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 – 2016-05 | **Undergraduate Research Assistant** | University of Rochester |

Rochester, NY

- 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 – 2014-12 | **Undergraduate Teaching Assistant** | University of Rochester |

Rochester, NY

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

Professional Activities and Service

| 2023-05 – present | **Student** | LaunchCode |

St. Louis, MO

- Studying SQL database use and administration from a practicing professional

| 2021-09 – 2021-12 | **Member** | Office for Student Success, WUSTL Graduate Student Resource Corps |

St. Louis, MO

- Provided free statistics tutoring, mentorship, and study groups for students who were first-generation or from limited socioeconomic backgrounds

| 2021-08 – 2023-05 | **Graduate Student Representative** | WUSTL Center for Teaching and Learning, Graduate Student Advisory Council |

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	WUSTL Center for Teaching and Learning

- Scholarship of Teaching and Learning Seminar
- Summer Course Design Institute
- EPIC Learning Community
- Constructing Effective Collaborative Learning Opportunities
- Facilitating Effective Discussions

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** St. Louis, MO	WUSTL Psychological 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 – 2022-05	**Reviewer** St. Louis, MO

- Siegler, "How Children Develop" select chapters: 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	**Founding Member and Webmaster** WUSTL Psychology Graduate Student Association's Social Media Committee St. Louis, MO	

- Created and maintained website
- Prepared clear instructions and documentation and trained next cohort to maintain the website

2019-01 – 2019-07	**Member** St. Louis, MO	WUSTL Psychology Graduate Student Association's Diversity Committee

- Coordinated events to promote and educate graduate students on diversity, equity, and inclusion issues

2018-10 – 2018-10	**Volunteer** Ferguson, MO	EarthDance Organic Farm School

- Performed general farm maintenance, planted, weeded, and harvested vegetables at farm that feeds local community

2018-09 – 2018-11	**Project Management Certification Program** University of Notre Dame, Office of Human Resources South Bend, IN	

- 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
- Career Development: Exploring Non-Academic Careers, WUSTL Career Center
- Scientific Writing for Psychology, Prof. Robert Kail
- WUSTL Arts & Sciences Summer Course Design

2018-08 – present	**Current Member**	Professional Organizations

- The Society for the Scientific Study of Reading
- American Psychological Association
- The Reading League

2016-09 – 2018-07	**Volunteer** South Bend, IN	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 opportunties 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 (August; Port Douglas, QLD, Australia).
2. †Homer, J. (2023). *Making sense of nonsense: Influences on preschoolers' spellings.* Graduate Student Senate's Graduate Research Symposium (April; St. Louis, MO).
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 (October; The Netherlands).
4. †Homer, J., & Treiman, R. (2020). *Spelling and reading novel homophones.* Society for the Scientific Study of Reading (July; Newport Beach, CA).