

SOPHIE(XING) SU

Google Scholar

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EDUCATION

Washington University in Saint Louis

Ph.D. in Psychology

Advisor: Dr. Jeff Zacks

Aug 2021 - present

GPA: 4.00

Cornell University

Bachelor of Arts in Psychology and Economics

cum laude in Psychology, Distinction in all subjects

July 2017 - May 2019

GPA: 3.799

China University of Political Science and Law

Majored in Applied Psychology

*Transferred to Cornell University after sophomore year

*September 2015 - June 2017**

GPA 4.03, Top 10% of the class

RELEVANT COURSEWORK & CERTIFICATIONS

- **Certifications:** Interactive Track and the Course Project at the Inaugural Neuromatch Academy, Neural Networks & Deep Learning (Coursera), Machine Learning (Coursera), Principles of fMRI (Coursera)
- **Selected Courseworks:** Linear Algebra, Probability Models, Social Neuroscience, Biopsychology Laboratory, Applied Econometrics, Behavior Public Policy, Economics and Law, Intermediate Macroeconomics Theory, Intermediate Microeconomics Theory

SKILLS

- Programming languages: R, Python, Bash, MATLAB, HTML
- Softwares: SPSS, Excel, FSL, AFNI, REDCap, FileMaker, Qualtrics
- Languages: Chinese (native), English (near-native)

PUBLICATION

- **Su, X.** & Swallow, K. In preparation. The role of perspective in action and goal Perception.
- Koirala, N., Perdue, M. V., **Su, X.**, Grigorenko, E. L., Landi, N. (2021). Neurite density and arborization is associated with reading skill and phonological processing in children. *NeuroImage*, 241, 118426.
- Koirala, N., Kleinman, D., Perdue, M. V., **Su, X.**, Villa, M., Grigorenko, E. L., Landi, N. (2021). Widespread effects of dMRI data quality on diffusion measures in children. *Human brain mapping*.
- Perdue, M., **Su, X.**, Koirala, N., Agrawal, V. & Landi, N. (2020, September). Relationships Between Gray Matter Structure and Reading Ability in a Large, Diverse Sample: Testing Age- and Sex-specific Effects (Abstract ID: 131616). Poster presented at the 2020 Flux Virtual Congress.
- Koirala, N., Perdue, M., **Su, X.**, Grigorenko, E. & Landi, N. (2019, November). Quantifying Imaging Quality for Multi-Center Data Analysis. Poster presented at the 2019 Florida Learning Disabilities Conference. Tallahassee, FL.

RESEARCH EXPERIENCE

Dynamic Cognition Laboratory

PhD Researcher

August 2021 - present

Principal Investigator: Dr. Jeff Zacks

- Model prediction in visual dynamic cognition by integrating state of the art static and dynamic saliency prediction models and real people gaze patterns
- Investigate the role of context in event perception by stimulating prediction using the extended structured event memory model in various contexts
- Exploring prediction error in saccades

Haskins Laboratories

Research Associate

August 2019 - July 2020

Principal Investigator: Dr. Nicole Landi

- Design the research plan; select, employ and assess various machine learning algorithms to identify anatomical features that are correlated to reading abilities
- Create and maintain a REDCap database of more than 2000 participants' behavior, genetics, and neuroimaging information using R and Bash script for the *Imaging Genetics in Specific Reading Disability (SRD): Meta- and Mega-analyses* project
- Work under Dr. Nabin Koirala to build an automated MRI imaging quality check pipeline by employing bash and Freesurfer scripts and building regression models using R
- Preprocess, clean, restructure and reformat neuroimaging data for future analysis using customized bash scripts on high performance computing linux clusters
- Reorganize, restructure and standardize behavior data of more than 2000's participants across different sites
- Organize weekly lab meeting of research ideas and progress

Attention, Memory & Perception lab at Cornell University

Honors Thesis Student

Jan 2018- May 2019

Principle Investigator: Dr. Khena Swallow

- Developed research question, study design, and experiment stimuli under the supervision of Dr. Khena Swallow
- Coded experiment stimuli using Matlab, administered the experiments to 120 Undergraduate students and analyzed the behavior data collected using R
- Presented this project at the 2019 Cornell Undergraduate Psychology Conference
- Coded event segmentation cues in experiment stimuli using Cowlog
- Participated in weekly lab meeting, presented research ideas and literature reviews

Child's Witness & Cognition Lab at Cornell University

Research Assistant

Jan 2018 - August 2018

Principle Investigator: Dr. Stephen J. Ceci

- Worked under Dr. Kayla Burd to compare different types of verdict procedures and the impact of requiring reasoned verdicts on the jury's decision making process
- Edited the mock case used in the experiment by counterbalancing various cognitive cues using Qualtrics
- Coded and analyzed mock jurors' qualitative data to determine the impact of jury verdict procedure on jurors' decision making and judgement

SNAP lab at Stanford University

Summer Research Assistant

June 2018 - August 2018

Principle Investigator: Dr. Ian Gotlib

- Analyzed fornix Diffusion tensor imaging data to explore the relationship of fornix development and early life stress using R
- Assisted with magnetic Resonance Imaging data acquisition, quality check and preprocessing using neuroimaging processing software such as Freesurfer and MrDiffusion
- Assisted Dr. Tiffany Ho with generating, editing fornix diffusion tensor imaging data of 200 adolescents

- Assisted Dr.Emily Dennis with identifying amygdala and hippocampus of 2-years old's magnetic Resonance Imaging structure imaging

Wang's lab at China University of Political Science and Law

June 2016 - June 2017

Research Assistant

Principle Investigator: Dr.Guofang Wang

- Conducted an independent study on the relationship between social media use and political polarization
- Developed the experiment using E-Prime, collected survey data from 400 participants using Qualtrics
- Analyzed the data using SPSS, co-wrote the project report