

Violet Xiang

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violetxi.github.io

Education

- 2020- **Ph.D. in Psychology**, Stanford University
- Advisors: Nick Haber, Jay McClelland
- 2018-2020 **M.S. in Computer Science**, Indiana University
- 2011-2016 **B.S. in Informatics & B.A. in Mathematics**, Indiana University

Publications

* Equal Contribution

- 2023 **From Centralized to Self-Supervised: Pursuing Realistic Multi-Agent Reinforcement Learning**
Violet Xiang, Logan Cross, Jan-Philipp Fränken, Nick Haber. In *NeurIPS Agent Learning in Open-Endedness (ALOE) Workshop*
- 2023 **The BabyView Camera: Designing a New Head-mounted Camera to Capture Children's Early social and Visual Environments**
Bria Long, Sarah Goodin, George Kachergis, Virginia A Marchman, Samaher F Radwan, Robert Z Sparks, Violet Xiang, Chengxu Zhuang, Oliver Hsu, Brett Newman, Daniel LK Yamins, Michael C Frank. In *Behavior Research Methods*
- 2022 **How Well Do Unsupervised Learning Algorithms Model Human Real-time and Life-long Learning?**
Chengxu Zhuang*, Violet Xiang*, Yoon Bai, Xiaoxuan Jia, Nicholas Turk-Browne, Kenneth Norman, James J. DiCarlo, Daniel L. K. Yamins. In *NeurIPS Datasets and Benchmarks Track*
- 2021 **Defending Against Microphone-based Attacks with Personalized Noise**
Yuchen Liu, Violet Xiang, Eun Ji Seong, Apu Kapadia, Donald S Williamson. In *Proceedings on Privacy Enhancing Technologies*
- 2020 **Learning the Generative Principles of a Symbol System from Limited Examples**
Lei Yuan, Violet Xiang, David Crandall, Linda Smith. In *Cognition*
- Conference Abstracts*
- 2019 Semantic Structure of Infant First-person Scenes Changes with Development
Violet Xiang, Linda Smith, David Crandall. In *Annual Conference of the Cognitive Science Society*
- 2019 Not like us: The Changing Visual World of Infants
Violet Xiang, David Crandall, Linda Smith. In *Society for Research in Child Development*

Teaching

- 2023 Teaching Assistant, Introduction to Statistical Methods, Stanford University
- 2023 Teaching Assistant, Neural Network Models of Cognition, Stanford University
- 2021 Teaching Assistant, Longitudinal Design and Data Analysis, Stanford University
- 2019 Mentor, Proactive Health Informatics REU, Indiana University
- 2019 Teaching Assistant, Computer Vision, Indiana University
- 2018 Introduction to Data Structure and Algorithms, Indiana University

Experience

- 2016-2017 **DevOps Engineer**, PayLease, Chicago, IL
- Developed and maintained features and databases for web-based financial applications

Technical Skills

Languages	Python, C++, C#, C, MATLAB, Bash, Swift, Ruby, PHP, JavaScript
AI Frameworks	PyTorch, Ray, Tensorflow, Keras, Caffe2
Databases	MongoDB, MySQL, MSSQL, OracleSQL