Han, Zhixian

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Education

2019 - present **Ph.D. student in Psychology (Mathematical and Computational Cognitve Science area)** at Purdue University (GPA: 3.97/4.00)

2021 - present **Joint M.S. student in Statistics and Computer Science** at Purdue University (GPA: 3.97/4.00)

2017 - 2019 **M.S. in Physics** at Brown University (GPA: 3.56/4.00)

2014 - 2017 **B.S. in Physics and Psychology** at University of Minnesota, Twin Cities (GPA: 3.87/4.00)

2012 - 2014 Undergraduate student major in Physics at Sichuan University (GPA: 86.96/100.00)

Publications

Han, Z. , & Sereno, A. (2022a). Modeling the ventral and dorsal cortical visual pathways using artificial neural networks. *Neural Computation*, *34*(1), 138 - 171. doi: https://doi.org/10.1162/neco_a_01456

Han, Z. , & Sereno, A. (2022b). Identifying and localizing multiple objects using artificial ventral and dorsal visual cortical pathways.. Retrieved from `https://docs.lib.purdue.edu/modvis/2022/session01/3/` (Computational and Mathematical Models in Vision)

Han, Z. , & Sereno, A. (2023a). Identifying and localizing multiple objects using artificial ventral and dorsal cortical visual pathways. *Neural Computation*, *35*(2), 249 - 275. doi: https://doi.org/10.1162/neco_a_01559

Han, Z. , & Sereno, A. (2023b). Constraining the binding problem using maps.. Retrieved from `https://docs.lib.purdue.edu/modvis/2023/session03/2/` (Computational and Mathematical Models in Vision)

Mentorship Experience

Content Reviewer – Neuromatch Academy, Inc. May 2022

(Deep Learning Summer Course 2022)

– Help test new material for the course by completing tutorials and providing feedback.

– Lead the discussions with other content reviewers.

Lead Teaching Assistant – Neuromatch Academy, Inc. July 2021

(Computational Neuroscience Summer Course 2021)

– Guide small groups (10) of students in all aspects of live online learning. This includes guiding students in completion of code-based tutorials, guiding students in contextualizing the problemsets, and guiding students in developing peer-programming and self-learning skills.

– Guide students in their final project.

– Manage and provide support for 7-8 junior teaching assistants.

Skills

Python, MATLAB, Mathematica, C++, SQL

Machine Learning, Artificial Neural Networks