YUXI CHEN

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Education

2019-present	**Ph.D. Candidate in Neuroscience** Johns Hopkins University School of Medicine
2017-2019	**B.S. in Neuroscience** (Honors, Focus: Computational Neuroscience) – GPA: 3.96 Johns Hopkins University
2015-2017	**Major in Neuroscience, Minor in Bioinformatics** – GPA: 3.914 University of California, Los Angeles

Research Experience

2020-present **Graduate Researcher** - Advisor: Dr. James J. Knierim
Context-dependent associative representations in rat lateral entorhinal cortex under normal aging
Collaborators:
- Aging: Dr. Audrey Branch (Lab of Dr. Michela Gallagher)
- Computation: Noga Mudrik (Lab of Dr. Adam S. Charles)

2019 **Rotation Student -** Principal Investigator: Dr. Reza Shadmehr
Department of Biomedical Engineering, Johns Hopkins University School of Medicine
Modulation of movement vigor by effort cost during marmoset foraging

2017-2019 **Undergraduate Researcher -** Principal Investigator: Dr. Daniel H. O'Connor
Department of Neuroscience, Johns Hopkins University School of Medicine
Cortical processing of flexible and context-dependent sensorimotor sequences in mice

2017 **Undergraduate Researcher -** Principal Investigator: Dr. Katsushi Arisaka
Department of Physics and Astronomy, University of California, Los Angeles
Effect of essential amino acid L-lysine supplement on C. elegans locomotion

2016-2017 **Undergraduate Researcher -** Principal Investigator: Dr. V. Reggie Edgerton
Department of Integrative Biology and Physiology, University of California, Los Angeles
PPARδ overexpression on the mouse medial gastrocnemius after spinal cord transection

Publications

2023 **Chen Y**, Branch A, Shuai C, Gallagher M, Knierim JJ   *Hippocampus*
Parallel functional impairments in the lateral entorhinal cortex and hippocampus
of aged Long-Evans rats

2022 Xu D, Dong M, **Chen Y**, Delgado AM, Hughes NC, Zhang L, O'Connor DH   *Nature*
Cortical processing of flexible and context-dependent sensorimotor sequences

Poster Presentations

10/2024 **Chen Y**, Branch A, Zhu V, Shuai C, Gallagher M, Knierim JJ   *Society for*
Lateral entorhinal cortex odor-place representations under context-dependent rule   *Neuroscience*
switches in young and aged Long-Evans rats

06/2023 Salimpour Y, **Chen Y**, Sattar H, Lee HP, Rutishauser U, Anderson W   *BRAIN Initiative*

Theta-gamma phase-amplitude coupling supports working memory performance
in the human hippocampus

Meeting

06/2023 Lee HP, Sattar H, **Chen Y**, Rutishauser U, Anderson W, Salimpour Y
Effects of phase-dependent stimulation on hippocampal oscillations: a
computational modeling approach

*BRAIN Initiative
Meeting*

11/2022 **Chen Y**, Branch A, Shuai C, Gallagher M, Knierim JJ
Parallel functional impairments in the lateral entorhinal cortex and hippocampus
of aged Long-Evans rats

*Society for
Neuroscience*

11/2018 Xu D, **Chen Y**, Delgado AM, O'Connor DH
Cortical basis of sensorimotor adaptation

*Society for
Neuroscience*

Honors and Awards

2024 Trainee Professional Development Award, Society for Neuroscience
2024 Baltimore Brain Series Award, National Institute on Drug Abuse
2020-2021 Science of Learning Fellowship, Johns Hopkins Science of Learning Institute
2018 Travel Award, Johns Hopkins Undergraduate Program in Neuroscience
2018 Summer Training and Research (STAR) Award, Hopkins Office for Undergraduate Research
2017-2019 Dean's Lists, Johns Hopkins University
2016-2017 Dean's Honors Lists, University of California, Los Angeles

Workshop

11/2023 Junior Scientist Workshop on Mechanistic Cognitive Neuroscience, Janelia Research Campus

Teaching

2020 **Graduate Teaching Assistant**
Department of Neuroscience, Johns Hopkins University School of Medicine
Neuroscience Cognition II

2017 **Undergraduate Teaching Assistant**
Department of Life Sciences, University of California, Los Angeles
Introduction to Molecular Biology

Mentoring

2022-present Vicky Zhu **-** B.S. candidate, class of 2026   Johns Hopkins University
  • *Undergraduate Albstein Research Scholarship (2024-25)*

2022-2023 Kevin Lu **-** B.S. candidate, class of 2026   Johns Hopkins University

2021-2023 Cecelia Shuai **-** B.S. class of 2023   Johns Hopkins University
  • *Neuroscience PhD student, Kuchibhotla Lab, Johns Hopkins University*

2020 Alexandra Wong **-** B.S. class of 2024   Johns Hopkins University
  • *Master's student in Applied Digital Health, University of Oxford*