

Yicheng Zheng
yzheng@neuro.fsu.edu

EDUCATION

- 2020-now **Ph.D. Candidate, Neuroscience**
Florida State University, Tallahassee, FL
Advisor: Aaron Wilber, PhD
- 2014-2018 **B.S., Life Science**
ShanghaiTech University, Shanghai, China
- 2016 **Summer Program**
University of Padua, Padua, Italy

RESEARCH EXPERIENCES

- 2021-now **Research Assistant**
Program of Neuroscience
Florida State University, Tallahassee, FL
PI: Aaron Wilber, PhD
- 2018-2020 **R&D Trainee**
Liver Disease Department
China Novartis Institute for Biomedical Research, Shanghai, China
- 2016-2018 **Research Assistant**
Behavior and System Neurobiology Lab
ShanghaiTech University, Shanghai, China
PIs: Ji Hu, PhD; Wenzhi Sun, PhD

PUBLICATIONS

- 2025 **Zheng Y, Zhou X, Moseley SC, Ragsdale SM, Alday LJ, Wu W & Wilber AA.** (2025). A hippocampal-parietal network for reference frame coordination. *Journal of Neuroscience*, e1782242025. doi: 10.1523/jneurosci.1782-24.2025

- 2023 Brea Guerrero A, Oijala M, Moseley SC, Tang T, Fletcher FH, **Zheng Y**, Sanchez LM, Clark BJ, McNaughton BL & Wilber AA. (2023). An integrated platform for In Vivo electrophysiology in spatial cognition experiments. *eNeuro*, 10(11). doi: 10.1523/eneuro.0274-23.2023
- In review Cushing SD, Salvador EM, **Zheng Y**, Alday LJ, Davis C, Moseley SC, Stimmell AC, Schatschneider C & Wilber AA. (In review). Rescuing impaired hippocampal-cortical interactions and spatial reorientation learning and memory during sleep in a mouse model of Alzheimer's disease using hippocampal 40Hz stimulation.
- In review Stimmell AC, Alday LJ, Salvador EM, Marquez Diaz J, Moseley SC, Cushing SD, **Zheng Y**, Ogg J, Ragsdale SM & Wilber AA. (In review). Resting after learning facilitates memory consolidation and reverses spatial reorientation impairments in female 3xTg-AD mice.

POSTER PRESENTATIONS

Presenter

- 2025 **Zheng Y**, Baysal HH, Moseley SC & Wilber AA. Dynamic Interfacing Between Allocentric and Egocentric Frames via the Parietal-Hippocampal Network During Spatial Navigation. *Society of Neuroscience, San Diego, CA*
- 2024 **Zheng Y**, Zhou X, Moseley SC, Ragsdale SM, Alday LJ, Wu W & Wilber AA. A Hippocampal-parietal Network for Map to Action Transformation. *Society of Neuroscience, Chicago, IL*
- 2023 **Zheng Y**, Zhou X, Moseley SC, Clark BJ, Wu W & Wilber AA. A Hippocampal-parietal Network for Map to Action Transformation. *Society of Neuroscience, Washington, DC*
- 2022 **Zheng Y**, Zhou X, Simmons CM, Moseley SC, Klaschus A, Thé R, Joseph E, Clark BJ, Wu W & Wilber AA. A Hippocampal-parietal Network for Map to Action Transformation. *Society of Neuroscience, San Diego, CA*

Co-author

- 2026 Baysal HH, **Zheng Y** & Wilber AA. Dynamic Interfacing Between Allocentric and Egocentric Frames via the Parietal-Hippocampal Network During Spatial Navigation. *Sunposium conference, West Palm Beach, FL*
- 2025 Chen Y, Escobar E, Coss K, Hurtado J, **Zheng Y**, Clark BJ, Fenton AA & Wilber AA. Disentangling Spatial Reference Frames in Rodent Navigation

Using a Novel Behavioral and Neural Analysis Approach. *Society of Neuroscience, San Diego, CA*

- 2025 Baysal HH, **Zheng Y** & Wilber AA. Analyzing Neural Mechanisms of Spatial Navigation. *Florida State University Undergraduate Research Symposium, Tallahassee, FL*
- 2023 Hymes A*, Kennedy K*, **Zheng Y** & Wilber AA. Analyzing Neural Mechanisms of Spatial Navigation. *Florida State University Undergraduate Research Symposium, Tallahassee, FL*
- 2022 Thé R, Simmons CM, **Zheng Y** & Wilber AA. Hippocampus and Parietal Cortex Activity Patterns Encodes Coordination Between Map-Like and Body-Centered Navigation. *Florida State University Undergraduate Research Symposium, Tallahassee, FL*

SKILLS

In vivo

Rodent administration:

Oral, intravenous, intracranial subcutaneous, intraperitoneal

Rodent anatomy & tissue collection:

Blood, brain, liver, intestines, etc.

Electrophysiological recording:

Tetrodes, silicon probe

Neurobiology:

Brain stereotaxis, heart perfusion, optogenetics, photometry recording

Bio-analyses

PCR, Gel electrophoresis, ELISA

Histology

Tissue section:

Frozen, paraffin

Staining:

IHC, IF, Nissl

Programming

Python, MATLAB, R

Languages

Mandarin (Native), English (Fluent)

MENTORSHIP

Florida State University Undergraduate Research Opportunity Program (UROP)

Bianca Maresma (2025-now), Riya Robin (2025-now), Hafsa Baysal (2024-now), Alexa Hymes (2022-2023), Kelly Kennedy (2022-2023), Ryan Thé (2021-2022)

Florida State University Research Directed Individual Study (DIS)

Brooke Srivastava (2026-now), Alexis Orozco (2025-now), Santiago Porras (2025-now), Paige Webb (2025-now), Olivia Cornelius (2024-2025), Isabella Randall (2024-2025), Jasmine Elliott (2023-2024), Sarah Barlow (2023-2024), Grace Manno (2023-2024), Axel Morey (2023-2024), Kelsey Coss (2023-2024), Aditi Krishnan (2023), Alexis Fiorillo (2023)

Volunteers

Anna Crede (2025), Sarah Smith (2025), Mallory Koyfman (2025), Kaya Lewis (2024), Savannah Wyckoff (2024), Ayberk Özgen (2024), Samantha Haklits (2023), Shannon Biassou (2023), Leslie Alday (2023), Kara Schwartz (2022-2023), Caitlyn Kissee (2022), Belle Krubitski (2022), Esther Joseph (2021-2022), Aimee Klachus (2021-2022)

PEER REVIEW SERVICES

Independent

Neuroscience and biobehavioral reviews
IBRO neuroscience reports

Assisting

Current biology

SERVICES & MEMBERSHIPS

CompNeuroSociety at FSU

Member of graduate student advisory council (2025-now)

Society of Neuroscience

Member (2022-2025)