

**Yicheng Zheng**  
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**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 Kisse (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)