

Licheng Zou's Curriculum Vitae

Contact Information

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Education

09/2019-06/2023	BSc in Math and Applied math, Shanghai Jiao Tong University, China
09/2023-06/2025 (expected)	MSc in Neurobiology, University of Amsterdam, Netherlands
08/2025-08/2028 (expected)	PhD candidate, Max-Planck Institute for Dynamics and Self-organization, Germany

Research Interests

Theoretical/ computational neuroscience: multi-scale brain modelling, mean-field analysis on spiking neural networks.

Professional Experience

09/2021-09/2022	Bachelor Assistant, Shanghai Jiaotong University Supervisor: Prof. Songting Li, Prof. Douglas Zhou
09/2022-07/2023	Research Intern, U. Amsterdam Supervisor: Dr. Jorge Mejias
07/2023-08/2024	Research Intern, Centre de Recerca Matemàtica Supervisor: Dr. Alex Roxin
09/2024-Now	Hybrid Research Intern, U. Amsterdam & U. Chicago & German Primate Center Supervisors: Dr. Jorge Mejias, Dr. Jorge Jaramillo, Dr. Igor Kagan
01/2025-Now	Graduate Assistant, Max Planck Institute for Dynamics and Self-organization Supervisor: Prof. Fred Wolf

Publications

- **Synaptic plasticity facilitates oscillations in a V1 cortical column model with multiple interneuron types**
Giulia Moreni, Licheng Zou, Cyriel Pennartz, Jorge Mejias
Frontiers in Computational Neuroscience, 2025

Preprints

- **Distributed evidence accumulation across macaque large-scale neocortical networks during perceptual decision making**
Licheng Zou, Nicola Palomero-Gallagher, Douglas Zhou, Songting Li, Jorge F Mejias
bioRxiv, 2023
- **Representational drift as the consequence of ongoing memory storage**
Federico Devalle, Licheng Zou, Gloria Cecchini, Alex Roxin
bioRxiv, 2024
- **Efficient laminar-distributed interactions and orientation selectivity in the mouse V1 cortical column**
Licheng Zou, Giulia Moreni, Cyriel Pennartz, Jorge Mejias
bioRxiv, 2024

- **Computational mechanisms of representational drift and odor perception in rodent olfactory systems**
Licheng Zou, Alex Roxin
In preparation, 2024

Conference Presentations

- Computational mechanisms of representational drift and odor perception in rodent olfactory systems, Poster talk, Bernstein 2024, Frankfurt
- Computational mechanisms of representational drift and odor perception in rodent olfactory systems, Poster talk, Barccsyn 2024, Barcelona
- Representational drift as the consequence of ongoing memory storage, Poster talk, Cosyne 2024, Lisbon
- What's going on in representational drift, Conference talk 20 mins, Donders Discussion 2023, Nijmegen

Workshop Attendance

- 2024 Cold Spring Harbor Asia summer course, 'Computational and Cognitive Neuroscience', Suzhou
- EBRAINS brain simulation workshop 2024, Bilbao
- Hybrid workshop BCN 2024, 'From EEG and related potentials to connectivity and source modeling', Barcelona
- SJTU computational neuroscience winter school 2022, 2023, Shanghai

Service

Reviewer for *Physical Review E*

Languages

Chinese (native), English (fluent), Spanish (basic).