# Licheng Zou's Curriculum Vitae

## Contact Information


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## Education

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| 09/2019-06/2023 | BSc in Math and Applied math, Shanghai Jiao Tong University, China |
| 09/2023-06/2025 | 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

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| 09/2021-09/2022 | Bachelor Assistant, Shanghai Jiaotong University<br>Supervisor: Prof. Songting Li, Prof. Douglas Zhou |
| 09/2022-07/2023 | Research Intern, U. Amsterdam<br>Supervisor: Dr. Jorge Mejias |
| 07/2023-08/2024 | Research Intern, Centre de Recerca Mathematica<br>Supervisor: Dr. Alex Roxin |
| 09/2024-06/2025 | Hybrid Research Intern, U. Amsterdam & U. Chicago & German Primate Center<br>Supervisors: Dr. Jorge Mejias, Dr. Jorge Jaramillo, Dr. Igor Kagan |
| 06/2025-08/2025 | Visiting Researcher (summer), NYU Shanghai<br>Supervisor: Dr. Zhuo-Cheng Xiao |
| 08/2025-Now | Doctoral Researcher, Max Planck Institute for Dynamics and Self-organization<br>Supervisor: Prof. Fred Wolf |

## Publications

- **Representational drift as the consequence of ongoing memory storage**
  Federico Devalle, Licheng Zou, Gloria Cecchini, Alex Roxin
  *Nature Scientific Reports*, 2025
- **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
- **Efficient laminar-distributed interactions and orientation selectivity in the mouse V1 cortical column**
  Licheng Zou, Giulia Moreni, Cyriel Pennartz, Jorge Mejias
  *bioRxiv*, 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

- CNeuro 2025, Shanghai
- 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).