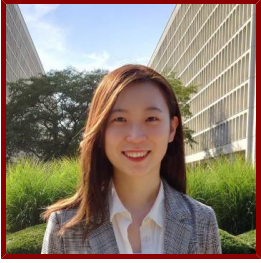



Stanford



Can Dong

Postdoctoral Scholar, Neurobiology

 Curriculum Vitae available Online

Bio

BIO

My research focuses on the cognitive mechanisms underpinning learning and memory and asks the following questions: 1) What are the neural bases for flexible coding of the brain and how do experiences shape these processes? 2) How do cross-brain-region activities influence memory encoding and recall? 3) Develop new techniques/methods to reintroduce the normal activity in the malfunctioned brains.

During my postdoc, I will work on spatial and social memory integration in the hippocampus to understand the mechanism of flexible coding in healthy and diseased brains.

HONORS AND AWARDS

- Barres Research Endowment to Support Postdoctoral Fellowships, interdepartmental., Stanford University, department of Neurobiology (2023-present)
- Stanford School of Medicine Dean's Postdoctoral Fellowship, Stanford University (2023-2024)
- Best Dissertation Award in Neurobiology, University of Chicago (2022)
- Biological Science Division 2nd year international student fellowship, University of Chicago (2017-2018)
- First-Class Scholarship for Elite students in Basic Sciences of ZJU, selected once per year., Zhejiang University (2013-2015)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Editor of the Media Committee, Graduate women in Science (2024 - present)
- Member, Women in science and engineer (WISE) at Stanford University (2022 - present)

PROFESSIONAL EDUCATION

- Doctor of Philosophy, University of Chicago (2022)
- PHD, University of Chicago, Neurobiology (2022)
- BS, Zhejiang University, Biological Sciences (2016)

STANFORD ADVISORS

- Lisa Giocomo, Postdoctoral Faculty Sponsor

Research & Scholarship

RESEARCH INTERESTS

- Brain and Learning Sciences

LAB AFFILIATIONS

- Lisa Giocomo (9/1/2022)

Publications

PUBLICATIONS

- **BTSP, not STDP, Drives Shifts in Hippocampal Representations During Familiarization.** *bioRxiv : the preprint server for biology*
Madar, A. D., Dong, C., Sheffield, M. E.
2023
- **Distinct place cell dynamics in CA1 and CA3 encode experience in new environments.** *Nature communications*
Dong, C., Madar, A. D., Sheffield, M. E.
2021; 12 (1): 2977
- **The Precision of Place Fields Governs Their Fate across Epochs of Experience** *ENEURO*
Chiu, Y., Dong, C., Krishnan, S., Sheffield, M. J.
2023; 10 (12)