

Matteo Guardamagna, PhD

Solberg Postdoctoral Fellow at Kavli Institute for Systems Neuroscience (NTNU)
guardamagnamatteo@gmail.com or matteo.guardamagna@ntnu.no

Education

- 2018-2022: **PhD in Neuroscience**, Radboud University (Donders Institute), Nijmegen (NL).
Thesis: Temporal Coding Dynamics in the CA1 region of the hippocampus
- 2015-2017: **MSc in Cognitive Neuroscience**, University of Padua, Padua (IT).
Thesis: Functional characterization of spatially-modulated neurons in the dorsal subiculum of the mouse
- 2012-2015: **BSc in Psychological Sciences**, University of Milano-Bicocca, Milan (IT).
Thesis: Cross-modal influences on face perception: psychophysiological study

Research Positions

- 2023-present: **Postdoctoral Fellow**
Kavli Institute for Systems Neuroscience (NTNU), Trondheim (NO)
Supervisors: Prof. Edvard Moser and Prof. May-Britt Moser
- 2018-2022: **PhD Candidate** (Marie-Curie Early-Stage Researcher)
Donders Institute (Radboud University), Nijmegen (NL).
Supervisors: Prof. Francesco Battaglia and Dr. Federico Stella
- 2020-2021: **Visiting PhD Student** (5 Months)
Kavli Institute for Systems Neuroscience (NTNU), Trondheim (NO)
Supervisors: Prof. Clifford Kentros
- 2016-2017: **Visiting Research Student** (MSc Thesis)
University College London (UCL), London (UK)
Supervisors: Prof. Francesca Cacucci and Prof Tom Wills
- 2014-2015: **Undergraduate Research Student** (BSc Thesis)
University of Milano-Bicocca, Milan (IT).
Supervisors: Prof. Alice Mado Proverbio

Grants and Awards

- 2025-ongoing: **Solberg** Postdoctoral Scholarship
- 2023-2025: **EMBO** Postdoctoral Fellowships (ALTF 738-2022)
- 2018-2021: **Marie Skłodowska-Curie** Fellowship for Early Stage Researchers (ITN for PhD)
- 2016-2017: **MIUR** Scholarship for Excellent Traineeships
- 2016-2017: **Erasmus+** Traineeship Scholarship
- 2022 **Cum Laude Distinction** from the PhD in Science at Radboud University.
- 2017 Graduated **cum laude** (110/110 cum laude) from the M.Sc
- 2015 Graduated **cum laude** (110/110 cum laude) from the BSc.

Publications

- Guardamagna, M.**, Chadney, O., Stella, F. et al. Direct entorhinal control of CA1 temporal coding. *Nat Commun* 16, 6430 (2025). <https://doi.org/10.1038/s41467-025-61453-2>
- Modi, B., **Guardamagna, M.**, Stella, F., Griguoli, M., Cherubini, E., Battaglia, FP (2023). *State Dependent Coupling of Hippocampal Oscillations*. *eLife*, <https://doi.org/10.7554/eLife.80263>.
- Guardamagna, M.**, Stella, F., & Battaglia, F. P. (2023). *Heterogeneity of network and coding states in mouse CA1 place cells*. *Cell Reports*, 42(2), 112022. <https://doi.org/10.1016/j.celrep.2023.112022>
- Guardamagna, M.**, Eichler, R., Pedrosa, R., Aarts, A., Meyer, A., & Battaglia, F. (2022). *The Hybrid Drive: A Chronic Implant Device Combining Tetrode Arrays with Silicon Probes for Layer-Resolved Ensemble Electrophysiology in Freely Moving Mice*. *J. Neural Eng.* 19 036030.