

QIAORONG S. YU

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EDUCATION

- 2025–2030 **New York University**
Ph.D. in Cognition and Perception (Experimental Psychology)
Advisors: Prof. David J. Heeger & Prof. Jonathan A. Winawer
- 2021–2025 **Balliol College, University of Oxford**
Integrated B.A. & M.Sc. in Mathematical and Theoretical Physics
Thesis: *Mental Representations of Spacetime*
Advisor: Prof. Vijay Balasubramanian

PUBLICATIONS

Preprints

Qiaorong, S. Yu, Zhaoze Wang, and Vijay Balasubramanian. "When and Where: A Model Hippocampal Network Unifies Formation of Time Cells and Place Cells." [10.64898/2026.03.22.713480](https://arxiv.org/abs/10.64898/2026.03.22.713480)

Peer Reviewed Articles

Qiaorong, S. Yu, Stephanie O'Neil, Xuejian Shen, Mark Vogelsberger, Sownak Bose, Boryana Hadzhyska, Lars Hernquist, Rahul Kannan, Monica Wu, and Ziang Wu. "Measuring the splashback feature: Dependence on halo properties and history." *The Open Journal of Astrophysics* 8 (2025). [10.33232/001c.146824](https://doi.org/10.33232/001c.146824)

PRESENTATIONS

Talks

- 2024 *The measurements of splashback features of dark matter halos using IllustrisTNG and MillenniumTNG simulations*, MIT Kavli Institute for Astrophysics and Space Research

Posters

- 2026 *A Hippocampal CA3 Network Unifies the Formation of Time Cell and Place Cell*, Computational System Neuroscience (COSYNE) 2026
- 2024 *Attempting dream decoding with generalisable visual EEG encoding models*, Cognitive Neuroscience Society (CNS) 2024 Annual Meeting

HONOURS & AWARDS

- 2026 Dean's Conference Fund (\$750), Graduate School of Arts and Sciences, New York University
- 2025 MacCracken Fellowship, Graduate School of Arts and Sciences, New York University
- 2024 [Sir William Markby Scholarship](#) (£250), Balliol College, University of Oxford
Dr Prosser's Trust Fund (£1000), Balliol College, University of Oxford
JT Hamilton Legacy Fund (£500), Balliol College, University of Oxford
- 2023 [Reynolds Scholarship](#) (£250), Balliol College, University of Oxford
Lubbock Fund (£2000), Balliol College, University of Oxford
- 2022 [Prosser Exhibition](#) (£150), Balliol College, University of Oxford
- 2020 British Physics Olympiad Round One Top Gold (Global Ranking)
Duke of Edinburgh Award, Silver and Bronze Medals