

Dev Laxman Subramanian

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EDUCATION

Ph.D. in Cognitive Psychology (Behavioral Neuroscience Specialization) , Cornell University • Sage Fellow (20% of doctoral students at Cornell)	Aug '17 - Jul '24 Ithaca, NY
M.S. in Applied Cognition and Neuroscience , The University of Texas at Dallas (GPA: 3.93/4.0) • Computational modeling specialization • Selden Leavell Scholarship awarded.	Aug '15 - May '17 Dallas, TX
B. Tech. in Electronics and Comm. Engineering , Maulana Azad National Institute of Technology	Jul '11 - May '15 Bhopal, India

RESEARCH EXPERIENCE

Postdoctoral researcher , The University of Texas Southwestern Medical Center Dr. Nader Pouratian's lab, Dept. of Neurological Surgery, UT Southwestern • <i>Single neuron recording and analysis in human patients to study cognitive and motor functions</i>	Jan '25 - present Dallas, TX
Temporary research assistant , Cornell University Dr. David M. Smith's lab, Dept. of Psychology, Cornell University • <i>Assisted with analysis of rodent electrophysiological recordings to understand memory processes</i>	Oct '24 - Dec '24 Ithaca, NY
Ph.D. researcher , Cornell University Behavioral Neuroscience specialization, Dept. of Psychology, Cornell University, with Dr. David M. Smith • <i>Analyzed rodent single neuron electrophysiological recordings to understand memory processes</i>	Aug '17 - Jul '24 Ithaca, NY
Graduate researcher , The University of Texas at Dallas Aging and Memory research lab of Dr. Lucien T. Thompson, UT Dallas • <i>Studied the effects of a nootropic D-Cycloserine on the spatial memory in rodents</i>	Sep '15 - May '17 Dallas, TX

TECHNICAL SKILLS

Neuroscience	Single neuron electrophysiology, Single-unit and population spiking analysis, Neural decoding, Signal processing, Spike sorting
Data analysis	Neural data cleaning, Data visualization (seaborn, matplotlib), Hypothesis testing, Sampling, Correlation analysis, Statistical modeling (Linear Non-linear model, Hidden markov model), Dimensionality reduction, Information theoretic analysis, Bayesian decoding, Machine learning, Deep learning
Programming Languages	Python, MATLAB, R, C, HTML, CSS
Software packages	Adobe illustrator, DeepLabCut, Spikesort3D, SPSS

PUBLICATIONS

- Subramanian D.L., Miller A.M., Smith D.M. (2024) A comparison of hippocampal and retrosplenial cortical spatial and contextual firing patterns. [Hippocampus](#)
- Subramanian D.L. & Smith D.M. (2024) Time cells in the retrosplenial cortex. [Hippocampus](#)
- Smith D. M., Yang Y. Y., Subramanian D. L., Miller A. M. P., Bulkin D. A., & Law L. M. (2022) The limbic memory circuit and the neural basis of contextual memory. [Neurobiology of Learning and Memory, 187](#)
- Subramanian D.L., Miller A.M., Smith D.M. (2024) The retrosplenial cortical role in delayed spatial alternation. [Neurobiology of Learning and Memory](#)

AWARDS & HONORS

Sage Fellowship , Cornell University	2017 – 2024
Selden Leavell Scholarship , The University of Texas at Dallas	2016 – 2017

TEACHING EXPERIENCE

Teaching Assistant

Statistics and Research Design Dept. of Psychology, Cornell University	Fall 2018, Fall 2021
Introduction to Cognitive Science Dept. of Psychology, Cornell University	Spring 2019, Spring 2022
Human Perception Dept. of Psychology, Cornell University	Fall 2019, Spring 2021, Spring 2023
Developmental Psychology Dept. of Psychology, Cornell University	Spring 2020
Intro to Behavioral Neuroscience Dept. of Psychology, Cornell University	Fall 2020
Adult Psychopathology Dept. of Psychology, Cornell University	Spring 2024

MENTORING EXPERIENCE

Mentor for Cleo (Zichen) He, Cornell Undergraduate student	Aug '20 – May '22
Mentor for Pete Rigas, Cornell Undergraduate student	Aug '18 – Dec '19

PRESENTATIONS

Poster presentations

- Subramanian D.L.**, He Z., Miller A.M.P., Smith D.M. (2021) A comparison of spatial and contextual coding in the hippocampus and retrosplenial cortex. *Society for Neuroscience (SFN) conference*
- Subramanian D.L.** & Smith D.M. (2023) Time cells in the retrosplenial cortex. *Society for Neuroscience (SFN) conference*

EXTRACURRICULAR ACTIVITIES

Vice president of the Cricket Club at Cornell	Jul '19 – Jul '24
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REFERENCE

David M. Smith
Professor, Dept. of Psychology
Cornell University
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