

Aadith Vittala

New York, NY

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571-353-4363

Education

New York University, New York, NY MD/PhD Student	June 2022 - current
Rice University, Houston, TX B.S. Physics, B.A. Biochemistry, <i>summa cum laude</i> GPA 4.02	Aug. 2017 - May 2021
University of Oxford, Oxford, UK Visiting Physics Student at St Edmund Hall	Jan. 2020 - June 2020

Research

New York University <i>MD/PhD Rotation Student (Advisor: Dr. Paul Glimcher)</i> · Studied decision-making in patients with depression	June 2022 - Aug. 2022
National Institute of Mental Health <i>NIH Postbac IRTA (Advisor: Dr. Heather Cameron)</i> · Studied behavioral correlates of adult neurogenesis in rodents	Aug. 2021 - June 2022
Rice University <i>Undergraduate Researcher (Advisor: Dr. Devika Subramanian)</i> · Applied computational tools to better characterize and predict MIS-C, an inflammatory syndrome triggered by Covid-19 infection in children	Jan. 2021 - June 2022
University of Oxford <i>Undergraduate Researcher (Advisor: Dr. Tim Vogels)</i> · Applied deep learning techniques to study excitation-inhibition balance in a spiking neural network model	Feb. 2020 - June 2020
Baylor College of Medicine <i>Undergraduate Researcher (Advisor: Dr. Xaq Pitkow)</i> · Developed computational techniques to infer learning rules in Boltzmann machine models of neural networks · Applied statistical physics tools to study how architecture affects learning in Boltzmann machines	Aug. 2019 - May 2021
University of California, San Francisco <i>Amgen Scholar (Advisor: Dr. Mazen Kheirbek)</i> · Characterized neural encoding of ambiguous stimuli in the mouse ventral hippocampus · Developed a behavior task to study necessity of ventral hippocampus for trace associative learning	May - Aug. 2019

Publications

Vittala, A., Murphy, N., Maheshwari, A., & Krishnan, V. (2020). Understanding Cortical Dysfunction in Schizophrenia With TMS/EEG. *Frontiers in Neuroscience*, 14. <https://doi.org/10.3389/fnins.2020.00554>

Guo, W., Vittala, A., McKenzie, R., & Yao, Y. (2016). The Need for Genetic Predictors for Antidepressant Actions of Ketamine or Ketamine Metabolites. *Journal of Psychiatry and Brain Science*, 1(3). <https://doi.org/10.20900/jpbs.20160014>

Leadership and Service

Rice University Standing Committee on Teaching

Aug. 2020 – May 2021

Undergraduate Representative

- Served as undergraduate representative on faculty committee to support and improve teaching
- Polled student body and communicated opinions to committee on updating course evaluation system
- Contributed student perspective while working to modernize teaching award process

Rice iGEM

April – Oct. 2018

Modeling Team Leader

- Led mathematical modeling sub-team in a synthetic biology project
- Team received an Honorable Mention for Project at iGEM Jamboree

Head Academic Fellow

April 2019 – 2020

- Organized events to enrich the academic setting of Lovett College, including talks by professors, help sessions for finding research opportunities, and the Lovett Undergraduate Research Symposium
- Communicate with college leadership to manage budget and co-host events with other student groups

Academic Fellow

Aug. 2018 – May 2021

- Provided free tutoring and review sessions for physics, chemistry, and mathematics classes
- Tutored a total of 5-10 students every week for 2-3 hours

Awards

Rice Alumni in Medicine Research Award

May 2022

- Awarded prize for most outstanding research amongst medical school matriculants in 2022

Trustee Distinguished Scholarship

August 2017 - May 2021

- Awarded \$100K scholarship by Rice University for academic distinction in high school

Tom W. Bonner Book Prize

May 2019, 2020, 2021

- Awarded prize for most outstanding physics student three years in a row

Kathleen S. Matthews Teaching and Mentorship Award

May 2021

- Awarded prize for teaching excellence from Rice Department of Biosciences

Distinction in Research Award

May 2021

- Recognized for producing a substantial research project that went beyond the norm

Rice President's Honor Roll

Jan. 2018 - current

- Recognized for outstanding academic achievement in every semester beginning with Fall 2017