Shweta Prasad

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EDUCATION	Ashoka University, Sonipat, Haryana, India	Aug 2018 – Aug 2022
	BSc. Hons. in Computer Science with a Biology minor Lab Affiliation: Neuroethology Lab, Ashoka University	1108 = 010 1108 = 0==
	■ Cumulative GPA: 3.62 / 4.0	
	Neuromatch Academy, School of Computational Neuroscience	Jul 2020 – Jul 2020
	Interactive Track student, mentored by Dr. Adrien Peyrache, McGill University, Canada	
	Hari Sri Vidya Nidhi School, Punkunnam, Thrissur, Kerala, India	June 2012 – May 2016
	Grade XII - ISC - 94.25 %; Grade X - ICSE - 94.25 %	
RESEARCH EXPERIENCE	Neuroethology Lab, Ashoka University Supervisor: Dr. K. Bittu Rajaraman (Associate Professor, Depts. of Biology	Aug 2018 – Present
	 and Psychology) Ongoing project: Mathematically modelling call pattern generation and recognition in bushcrickets using complex dynamical system models. 	
	 Independent study completed in topics in computational neuroscience with a focus on understanding spike sorting neural data, doing field work and assisting Ph.D students in designing behavioral experiments. 	
	Neuromatch Academy	Jul 2020 – Jul 2020
	Mentor: Dr. Adrien Peyrache, McGill University, Canada Completed group project: Decoding neural data from Steinmetz, et al., 2019, to predict	
	erroneous decision making in trained mice. We made use of GLMs to predict whether the performance of trained mice that performed well in an 2-AUC experimental paradigm was affected by previous erroneous decisions. Results were inconclusive.	
	Single Molecule Biophysics, Haldar Lab, Ashoka University	Dec 2019 – Present
	Supervisors: Dr. Shubhasis Haldar (Assistant Professor, Dept. of Biology) and Dr. Debayan	
	 Gupta (Assistant Professor, Dept. of Computer Science) Ongoing project: Building and improving covalent magnetic tweezers and associated software(s) for week-long studies of single molecules biophysics. (Currently on hold, due to COVID-19) 	
RESEARCH	 Complex dynamical systems, networks, information in networks and neuroethology 	
INTERESTS	 Central pattern generators: rhythmic pattern production and recognition 	
	 Acoustic communication, audition and navigation in invertebrates Design results of the property of t	
	 Reinforcement learning, optimal control & decision theory, particularly in understanding sensorimotor control 	
AWARDS & SCHOLARSHIPS	■ Dean's List: Spring Semester 2019 – Summer Semester 2019 For attaining a semester GPA of at least 3.60.	
LEADERSHIP	Student Representative, Department of Computer Science, Ashoka University	Sep 2020 – Sep 2021
ROLES	Appointed by the Head of Department, Dept. of CS. I serve as primary coordinator of all communication between the department and the student body, and am responsible for outreach and organization within the student body.	
	Ministry of Academic Affairs , Student Government , Ashoka University Member of the Academic Advisory Board: The AAB is consulted by the MAA before policy decisions are made.	Sep 2020 – Sep 2021
	 President, Vistaar - The Music Society, Ashoka University Vistaar is the largest student-run organization at Ashoka. As President, I: Brought about policy changes with regards to University facilities dispensed via Vistaar. Organized multiple stand-alone and collaborative on- campus events Shifted focus to building an inclusive, collaborative atmosphere for growth of musical 	Sep 2019 – Mar 2020
	engagement on campus	

Jul 2019 - Mar 2019

Ministry of Community Well-being: Infirmary & Sexual Health Dept.,

Student Government, Ashoka University

ACADEMIC SOCIETIES

Women in Computing Society, Ashoka University

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Member of Events Team. WICS, Ashoka is a student led academic society that focuses on inculcating an inclusive and productive space for women and non-binary folk in CS. We work to bring

more women into CS and STEM.

OTHER WORK EXPERIENCE

DiverseNeuro: A Diversity Project Co-Founder and Researcher Jun 2020 – Present

Aug 2018 - Present

A collaborative research venture between IISER Pune and Ashoka University;

Aims to study the international academic demographic in neuroscience in order to help inclusive

policy-making.

The Neuroscience Outreach Network, Princeton, NJ, USA

Aug 2020 – Present

Community Outreach and Content Coordinator

The goal of this project is to enable access to education in neuroscience to students in underserved communities, to tailor virtual or classroom lessons and materials for individual grade levels, from kindergarten to 12th grade and beyond, and provide lessons and materials to teachers, students and their caretakers in their native language (e.g., Spanish, Hindi, Russian, etc.).

Writer, Kalinga Magazine, Ashaka University

Sep 2018 - Nov 2019

Writer, Pehchaan Magazine, Ashoka University

Jan 2019 – Apr 2019

CONFERENCES

ATTENDED

■ No Garland Neuroscience, 2020 – IISER Pune

■ Animal Behavior Society Conference 2020

■ JuliaCon 2020

■ Insect Navigation Workshop 2020, U of Sussex

■ ICMNS 2020

■ Neuromatch 1.0, 2.0

■ OCNS*2020 : Computational Neuroscience conference

■ ViDA 2020: Virtual Dopamine Conference

LANGUAGES

English, Malayalam, Hindi

SKILLS

LATEX, XATATEX, MATLAB, R, C/C++, Python, Java, GIMP, HTML, CSS, p5.js, Adobe Illustrator

INTERESTS

Illustration, writing, music, hiking & cycling, science communication.