SHWETA PRASAD
shweta.prasad_ug21@ashoka.edu.in
+91 8139055680

Education:

–Ashoka University – Sonepat , Haryana. Batch : UG 2018–2021
- Pursuing a B.Sc (Hons) in Computer Science (Major) and a Minor in Biology,
- Current major GPA – 3.4/4, CGPA – 3.6/4

–Neuromatch Academy – Summer school in Computational Neuroscience : 2020

–Hari Sri Vidya Nidhi School – Thrissur, Kerala : 2012 – 2016
- Class XII – I.S.C – 94.25% ; Subjects : Mathematics, Physics, Chemistry, Biology, English (Literature & Language)
- Class X – I.C.S.E – 94.25% ; Subjects : Mathematics, Chemistry, Physics, Biology, English (Literature & Language), History & Civics, Geography, Computer Science

Research Interests :

- Acoustic communication, audition and navigation in invertebrates
- Complex dynamical systems and neuroethology
- Central Pattern Generators: rhythmic pattern production and recognition

Research Projects :

–Ongoing:
- Central Pattern Generators : Building a dynamical model for rhythmic pattern generation and recognition in crickets under Dr. K Bittu.
- Building a ground-truth spike-sorting pipeline to compare with existing spike sorting software, to analyse multi-channel neural data.
- Diverseneuro.org – a survey based study into inclusivness and diversity in the neuroscience academia.
- Covalent Magnetic Tweezer: Literature review; Optimizing the code-base for the existing tweezer under Dr. Shubhasis Haldar and Debayan Gupta, and assembling a new tweezer.

–Past Projects:

- Decoding neural data from Steinmetz, et al. to predict erroneous decision making in trained mice.
- Behavioral experiments to study *Onomarchus uninotatus* audition : Assisted Ph.D students in designing and conducting their experiments, and collecting data.
- Classical Hallucinogens (review project)
- Mirror Neurons (review project)

Technical Skills:

LINUX, C, Python, R, MATLAB

Honours and Awards:

- Dean' s List – Spring Semester 2019 CGPA of 3.66/4, Summer Semester 2019 CGPA of 3.7/4
- Topper in Biology, 99% in ISC
- Topper in Computer Science, 99% in ICSE
- First Runners – Up in Creative Writing, National Literary Competitions, ISC 2016
- Winner – Kerala State Creative Writing Competition, ISC 2016
- Winner – Western Group and Solo Music, All Kerala Cultural Competitions, ISC 2016

Conferences Attended:

- No Garland Neuroscience, 2020 – IISER Pune
- JuliaCon 2020
- Animal Behavior Society Conference 2020
- Insect Navigation Workshop 2020, USussex
- ICMNS 2020
- Neuromatch 1.0, 2.0
- ViDA 2020: Virtual Dopamine Conference
- OCNS*2020 : Computational Neuroscience conference
- KnowDis Data Science: Machine Learning Day (Organizing volunteer, attendee)

Leadership roles:

-> Co-founder of Diverseneuro.org : A collaborative research venture between IISER Pune and Ashoka University; Aims to study the international academic demographic in neuroscience inorder to help inclusive policy-making.

-> President :Vistaar, Music Society, Ashoka University (2019-20)

- Brought about policy changes with regards to University facilities dispensed via the Society

- Role as chief negotiater with the University Administration, and communicater to the student body
- Organized multiple stand-alone and collaborative on-campus events
- Shifted focus to building an inclusive, collaborative atmosphere for growth of musical engagement on campus

-> House Captain (2015), Junior Captain (2014), HSVN School.

Extra Curriculars:

-Women in Computer Science - Events Team (2019 -)

-Writing :
- Kalinga Magazine : Kalinga is a satire magazine at Ashoka University. The magazine is available on Medium. I ran the then *Save The Date* Column, as Richard Tater.

- Pehachaan, First and Second Issues: Pehchaan is Ashoka's only print magazine. Article : *Khayaal*, Spring 2019 Edition.

-Quizzing - QuizSoc Ashoka University; Kerala Quizzers

-Ministry of Wellbeing : Infirmary and Sexual Health Department, Ashoka University (2019 - 20)

-Design and Illustration

-Volunteering and Event Organization :
- The Neuroscience Outreach Network, Princeton, NJ. Outreach volunteer (2020 -)

- KnowDis Data Science - Conference at IIT Delhi (2019)

- Shoulder to Shoulder (2016) : An initiative to provide a platform to enable discourse on issues pertaining to gender, and disparity, among students of schools in Thrissur, Kerala.

- Car Wash to Fundraise for Pain and Palliative (2015) : Initiated, planned and organized my peers to wash cars in our neighbourhoods to raise funds for the Pain and Palliative Care Society, and donated the proceeds to their Medicine funds.