Nandini Bhattacharya

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Education

Ashoka University
Pursuing BSc (Hons.) in Psychology with a minor in Computer Science
GPA (as of 18/11/2023): 3.77/4 (overall) 3.96/4 (major)
- Dean's List: Spring 2022, Spring 2023

The Lawrence School, Lovedale
CBSE. Commerce with Mathematics and Computer Science.
Percentage: 94%

Technical Skills

Qualitative and Quantitative Research | Statistical Tools | Python | C | Java | Web Development | Data Visualisation | Machine Learning | Data Management | R | Research Writing and Presenting | Computational Neuroscience

Experience

Research Assistant, Ashoka University   September 2022 - Present
- Working with Abhishek Singh, a PhD. student in Prof. Bittu R's lab on his project on Group Rationality in Zebrafish.
- Developed and implemented analysis scripts to extract crucial data including inter-individual distance, sector-specific time allocation, and sector filtering, crucial for comprehending behavioural patterns.
- Conducted and documented trials with Zebrafish (Danio rerio), subsequently analyzing video footage to discern significant trends and behavioural patterns.
- Actively contributed to team discussions by presenting pertinent academic papers during lab meetings, fostering knowledge sharing and critical analysis.
- Currently engaged in drafting the final paper, synthesizing research findings and insights gleaned from the project.

Research Assistant, Ashoka University   July 2023 - Present
- Working under Maitrayee Sen, a PhD student in Prof. Simantini Ghosh's lab on a project exploring Domestic Abuse through the lens of Complex Trauma Theory as theorised by Bessel van der Kolk and Judith Herman.
- Project won first prize for our Research Poster at the Student Research Conference organised by the Jindal School of Psychology and Counselling. Part of poster creation team for the same.
- Assisted with the creation of interview schedule and adapted various scales to fit the research paradigm.
- Transcribed interviews in the 18-25-year-old cohort and contributed to the planning of the project.

Research Assistant, Ashoka University   November 2021 - March 2023
- Worked under Prof. Madhavi Maganti in data collection for her project using the Multilingual Assessment Instrument for Narratives in Indian Bilingual Children to understand normal language development.
- Managed the data collection process, which included seeking permissions, acquiring signed consent forms, coordinating convenient trial schedules, and overseeing logistical formalities.
- Conducted structured interviews with children aged 5-9, skillfully navigating interactions to gather essential data for the project.
- Collaborated within a team to transcribe all collected trial data into the requisite format for further analysis and scoring, ensuring accuracy and consistency in data presentation.

Event Coordinator, Events Department, RedBrick Hacks   July 2023 - August 2023
- Worked as Point of Contact with leadership for a team of 10 for RedBrick Hacks, 2023
- Ideated upon and implemented four popular events during the 24-hour hackathon.
- Also helped ideate and create Instagram, Twitter, and LinkedIn posts for the Hackathon.

Research Assistant, Centre for Social and Behavioural Change   October 2021 - February 2022
- Worked under the guidance of Mr Aayush Agarwal from CSBC on their Religiosity Project.
- Completed Protecting Human Research Participants Training (PHRP) program.
- Ran pilot trials in Hindi with 12 participants and took feedback from all of them.

Conferences Attended

Poster Presentation, Animal Behavior Live   November 2023
- Presented a poster on 'Rationality in Group Decision-Making in Zebrafish (*Danio rerio*)' at the online Animal Behaviour Live conference in November 2023.
- Attended talks on technology used in animal behaviour studies, such as SLEAP and IDTracker.

Poster Presentation, Student Undergraduate Research Conference, Azim Premj University   December 2023
- Led a team presentation on 'Rationality in Group Decision-Making in Zebrafish (*Danio rerio*)' at the SURC conference held at Azim Premji University.
- Engaged in discussions with professionals in decision-making and animal behaviour and received positive feedback on the work.

Extracurricular Activities

Head of Multimedia and Marketing, Kalinga   January 2023 - Present
- Led a team of 10 individuals, overseeing all club activities and ensuring seamless operations.
- Collaborated with fellow board members to develop and implement strategies for the club's growth. Assisted in coordinating 6 collaborations with clubs for campus-wide events.
- Spearheaded the strengthening of Kalinga's online footprint through strategic utilization of social media and diverse platforms, resulting in a substantial surge in online engagement. Instrumental in the establishment and management of the club's dedicated website using Wix, ensuring its seamless functionality.

Co-Head of Events Department, Women in Computing Society   July 2023 - Present
- Directed and coordinated events within and outside the Women in Computing Society.
- Led a team to plan and execute diverse events aimed at fostering community engagement and professional development in the STEM community at Ashoka University.
- Facilitated WiCS' flagship event, a Cryptic Hunt that saw the participation of over 200 people including current students and alumni. Received positive feedback on the same.

Helpdesk Mentor, Psychology Society   August 2023 - Present
- Conducted regular office hours providing guidance and support to students navigating their psychology coursework at Ashoka University.
- Assisted individuals in clarifying course trajectories, addressing academic queries, and resolving course-related doubts, fostering a conducive learning environment within the society.
- Provided personalized mentorship, offering insights and advice tailored to individual student needs, thereby contributing to their academic success.

Certifications

Introduction to Data Science by IBM, edX   October 2021
Computational Neuroscience, Neuromatch Academy   July 2023