

Praveen Sasikumar

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ABOUT ME

I am a PhD student at the National University of Singapore, working at the intersection of computer science and psychology. My research focuses on human-computer interaction, immersive XR (VR/AR/MR), wearables, and emerging technologies. I bring experience from applied research and multiple internships, with an emphasis on user-centred design and evaluation. I am passionate about interdisciplinary approaches and aim to advance psychological understanding through technology, fostering meaningful connections across digital and real-world contexts.

Bridging minds and machines to transform human experiences.

Education

PhD in Computer Science

Jan 2026 – Ongoing

National University of Singapore

- **Coursework:** Advanced topics in HCI, Qualitative Research, Information Visualization

Masters in Forensic Psychology - First Class with Distinction

Jun 2019 – July 2021

National Forensic Sciences University, India

- **Thesis:** Who is a better eyewitness? Looking at the effects of attention, fantasy proneness, and personality on false memory.
- **Coursework:** Psychobiology, Forensic Science and Law, Research Methods and Statistics
- GPA: 8.06/10 ([Masters Transcript](#) 📄)

BSc Honours in Psychology - First Class

June 2016 – June 2019

Christ University, India

- **Thesis:** The effect of travel videos on flow and motivation in deaf and hearing population : A comparative study.
- **Coursework:** Qualitative and Quantitative Research Methods, Neural Mechanisms, Ai and Brain Machine Interface , Psychotherapy
- GPA: 6.2/10 ([Bachelor's Transcript](#) 📄)

Experience

Visiting Researcher

Singapore

National University Singapore

Jan 2025 – Jan 2026

- Worked on research and media outreach for the AiSee project, an assistive device that helps users with Visual Impairments. Assisted in creating user journey maps and developing storyboards.
- Captured and produced videos to support project objectives. ([AiSee Video Production](#) 📄)
- Conducted user studies for the project Blinddrone(funded by Ministry of Defence, Singapore), a project where the application of audio modality in drones for acoustic scene analysis is investigated, particularly in scenarios where visual data (e.g., camera input) is restricted due to occlusions, adverse weather, or bandwidth limitations. Accepted at NeurIPS 2025. ([NeurIPS'25 Paper](#) 📄)
- Conducted co-design sessions with psychologists and mental health experts in the development of a mixed reality app, resulting in a short paper titled 'Co-Designing Stress Interventions in Mixed Reality with Mental Health Experts'. Accepted at the MIX Workshop, ISMAR Conference 2025. ([ISMAR-MIX'25 Short Paper](#) 📄)
- Led a research project titled "Zenflow: Investigating MR Transitions for Enhancing Sleep and Relaxation" a mixed reality app designed to minimize stress in users. Accepted at CHI 2026. ([Zenflow-CHI'26 Full Paper](#) 📄)
- Worked on research and media development of an app "Factually" which detects misinformation from the

conversation. Accepted and presented at the CHI'25 Conference. ([CHI'25 Abstract Paper](#)) ([CHI'25 Conference Paper](#))

- Contributed to data cleaning for a Meta-funded project that examined user's motion sickness levels before and after playing VR games.

Research Intern

Mangroves Wellbeing

*Kozhikode, India
Jan 2024 – Oct 2024*

- Assisted in data collection and review of the literature on topic couple therapy.
- Prepared everyday research reports
- Assisted in therapy sessions along with psychologist.
- Developed a collaboration plan and employee assistance programs (EAP) with IT companies

Freelance Researcher

Professor Dr.Suranga Nanayakkara, NUS

*WFH
Feb 2023 – Sep 2023*

- Assisted in the making of research proposals.
- Worked on the project “Ubiquitous Personalized Virtual Companion.” [Research Proposal](#)
- Worked and learned aspects from Psychology and Virtual Reality.

Psychologist

Dr.Psych Mind Clinic

*Kozhikode, India
Jan 2022 – Dec 2022*

- Recorded and presented case histories.
- Attended outpatient consultations with clinical psychologists.
- Undertook assignments to raise community awareness among the general public.
- Participated in research activities, including literature review, data collection, and report preparation.
- Successfully completed all tasks assigned with enthusiasm and patience.

Psychologist Intern

Manasa Neuropsychiatric Hospital

*Bangalore, India
Nov 2021 – Dec 2021*

- Assisted in Therapy sessions
- Engaged in various units like cerebral palsy unit and learning disability units.
- Made reports of everyday cases and updated case history,
- Observed test administration and was involved in scoring psychometric tests under supervision and observed individual counselling sessions.
- Presented researched content on different topics each day to the team.

Psychologist Intern

Child Development Centre

*Trivandrum, India
Sep 2021 – Oct 2021*

- Aided the staff in preparing teaching material.
- Assisted teachers in planning daily recreational activities.
- Documented services and tracked progress for children.
- Assisted in Therapy sessions
- Made reports of everyday cases and updated case history.
- Participated in recreational activities.

Forensic Psychologist Intern

Directorate of Forensic Science

*Gandhinagar, India
Feb 2021 – June 2021*

- Joined the Directorate of Forensic Sciences as Forensic Psychologist Intern during the fourth semester of the Master's program.
- Assisted in narcoanalysis and the suspect detection system (SDS) in forensic investigations.
- Assisted in forensic interviews and maintained detailed documentation.
- Worked on Polygraph and BEOS(EEG) systems within a forensic setup to support investigative processes.

Psychologist Intern

Government Mental Health Center

Trivandrum, India

May 2018 – June 2018

- Worked closely with psychiatrist ([Dr. Nelson Joseph](#)) and observed expert psychiatrists and psychologists
- Assisted in Therapy sessions.
- Participated in case discussions, delivered educational seminars, and attended lectures on topics related to active cases.

Psychologist Intern

National Institute for Speech and Hearing

Trivandrum, India

April 2017 – May 2017

- Observed highly skilled mental health and medical staff
- Displayed sensitivity to the cultural and linguistic needs of the clients and families.
- Documented services and responses to treatment in patient case files.
- Participated in seminars and lectures to increase awareness of mental health symptoms and other issues.
- Observed test administration and participated in scoring psychometric tests under supervision and observed individual counselling sessions.

Projects

Virtual Reality and Crime

[Research Proposal](#)

- Explores AI-driven identity crimes, psychological vulnerabilities, and regulatory challenges in immersive Meta-verse spaces, addressing virtual harassment, deviant behaviors, and governance gaps in AI-enhanced virtual environments.

Design, Branding, Video Edits

[Portfolio](#)

- A compilation of design briefs, branding assets, and video edits created for brands like Organic India, Simplilearn (ed-tech) etc.

Unity Projects

[Video Link](#)

- Developed a 3D program called Jarvis in Unity, where the bot responds to voice commands (e.g., “Jarvis, switch on the lights”).

Extracurricular Activities

- Volunteered with Youth for Seva, contributing to community development initiatives aimed at fostering education and social responsibility.
- Took part in EEG workshop by axxonet, workshop on mental health through creativity , training on MEE Zuid-Holland Noord by Elisa van den Berg.

References

Dr Vijayalaya Srinivas

- Associate Professor, Christ University, India
- vijayalaya.srinivas@christuniversity.in

Dr Suranga Nanayakkara

- Associate Professor, School of Computing, National University Singapore, Singapore
- scn@nus.edu.sg