

EDUCATION

Cardiff College, Cardiff, Wales;

WJEC GCE A Levels: Biology, Chemistry, Psychology, Mathematics, EPQ

Predicted 4 A; 4 A grades achieved at AS Level*

2025 — Present

2025 — Present

Heritage International Xperiential School, Gurugram, India;

9 CIE IGCSE subjects (A-A range across all 9)*

2020 — 2025

2023 — 2025

ACADEMIC HONORS AND INTERNATIONAL AWARDS

- **Principal Award for AS Level Results** 2026
- CREST Gold Award for Project Sahitya 2026
- Technovation Girls: Global Semifinalist for Project Sahitya [link](#) 2026
- British Biology Olympiad: Highly Commended 2026
- British Neuroscience Olympiad: Qualified for National Round 2026
- **Junior Breakthrough Challenge — Submitted** 2026
- **IYNA Neuroethics Essay Competition — Submitted** 2026
- **Queen's Commonwealth Essay Competition — Submitted** 2026

COGNITIVE SCIENCE RESEARCH AND EXPERIENCES

Research:

First Author, ADAS-Cog Cultural Bias Study (n=12)

2025 — 2026

Clinical Researcher, Marengo Asia Hospital — Department of Neurology

- Designed and led a pilot study evaluating cultural bias within the Alzheimer's Disease Assessment Scale–Cognitive Subscale (ADAS-Cog) among postgraduate-educated urban Indian Alzheimer's patients
- Conducted patient cognitive assessments, literature reviews, clinical data analysis, and manuscript preparation
- Identified significant impairment across all cognitive domains, with memory domains — specifically Word Recall (M = 4.75, SD = 2.96) and Word Recognition (M = 3.75, SD = 2.38) — showing the greatest deficits, followed by visuospatial and orientation domains.
- Results underscored the urgent need for culturally appropriate cognitive assessment tools and interventions tailored to Indian populations.
- Paper accepted for publication in Bioinformation Journal (EMID: 9aa3c701c38be58d)

Co-Author, Cross-Cultural ADAS-Cog Validation Study (n=120)

2025 — 2026

- Expanded pilot into a 120-patient clinical validation cohort across two hospitals in Mumbai, India, assessing cross-cultural performance of a culturally and linguistically modified ADAS-Cog across mild cognitive impairment (MCI) and Alzheimer's disease severity groups
- Conducted a cross-sectional study evaluating the Alzheimer's Disease Assessment Scale–Cognitive Subscale (ADAS-Cog) in 120 patients with MCI and varying severities of Alzheimer's disease.
- Evaluated 11 cognitive domains, disease-severity differences, and associations with age and educational attainment.
- Contributed to the cultural and linguistic adaptation of ADAS-Cog for the Indian population, including multilingual administration and culturally relevant word lists.
- Performed statistical analysis using SPSS, including one-way ANOVA, Tukey post-hoc analysis, and Spearman's correlation.
- Results showed that ADAS-Cog scores increased significantly with disease severity (MCI to severe AD), with all 11 cognitive domains showing significant impairment; higher age correlated with greater impairment, while higher education correlated with lower ADAS-Cog scores.
- Concluded that multilingual modal can be used for better adaptability of ADAS COG score which is an Internationally accepted scale.
- **Paper accepted in XXXXX Journal**

Internships:

Clinical Internship, Psychiatry & Mental Health, Fortis Memorial Research Institute, Gurugram

2026

Supervised by Dr. Samir Parikh

- Observed psychiatric evaluations and multidisciplinary case consultations across mood, anxiety, and psychotic disorder presentations; shadowed structured diagnostic interviews using DSM-5 frameworks
- Examined how cultural context shapes symptom presentation and clinician communication; compared diagnostic approaches across patient profiles to identify where standardised Western tools diverge from patient-reported experience
- Studied interdisciplinary treatment planning integrating pharmacological, psychotherapeutic, and social support modalities under supervision of a department-level clinical team

Intern Memory Clinic Research Internship

2025

Supervised by Dr. Praveen Gupta

- Conducted supervised cognitive assessments for **X** dementia patients
- Analysed clinical datasets relating to Alzheimer's disease and memory disorders
- Assisted with literature reviews and research discussions; findings directly informed the ongoing development of Smriti app

Publication:

Co-Authored 'The Wrong Words'

2026

Examined how Western diagnostic and cognitive assessment tools systematically misclassify non-Western patients; draws on ADAS-Cog research, Sahitya literacy data, and clinical observations across two hospital internships and also the emerging "continuum" between ADHD and Alzheimer's, drawing on research linking adult ADHD to elevated dementia risk, overlapping cognitive symptoms, and shared genetic and neurological markers between the two conditions.

- ISBN 978-81-994235-0-3 assigned; 1,500 copies distributed at Lions Club dementia care center, Mumbai
- Co-Authored with Dr. Deepak Rathod, a Neurology Registrar at UHW Cardiff, Wales

INNOVATION & OUTREACH

Smriti: Founder & AI Voice-Cloning Prototype Developer

2025 — Present

Website: <https://smriticare.org/>; Link to provisional patent: [PATENT](#)

- Conceived following Alzheimer's research investigating cultural limitations within the ADAS-Cog cognitive assessment
- Developed an AI-powered dementia companion delivering personalised non-pharmacological interventions through cloned caregiver voices, built using ElevenLabs Voice Cloning and the WhatsApp API
- Calibrated therapy according to individual ADAS-Cog cognitive profiles
- Filed a provisional patent (IN 202611038483) in March 2026; launched the live web application in June 2026
- Leading neurologist-supervised clinical validation through pilot study with 100 patients currently underway with two clinicians

Sahitya: Founder & AI Voice-Cloning Prototype Developer

2025 — Present

- Designed a structured literacy programme improving foundational reading outcomes among underserved children
- Developed a comprehensive phonics curriculum and the SLDSA early dyslexia screening framework
- Built a WhatsApp-native delivery model requiring minimal teacher training
- Implemented across 104 Government Anganwadi Centres through the Women & Child Development Department, Gurugram, reaching 2,950+ children through government implementation and partner volunteer organisations
- Tie up with EuroInternational school franchise to add 4000 students to the program
- Composed 200+ original phonics and literacy songs supporting structured literacy instruction
- Recipient of the Haryana Education Minister Award and Mission Sarbat Da Bhala Recognition Letter

Notes For The Future: Founder & Host

2025

Instagram post

- Founded an open-mic fundraising initiative combining music, storytelling, and community engagement
- Organised performances supporting educational opportunities for 150 students at Sai Public School
- Used total funds raised of rupees 1,50,000 to patch up drywall and provide basic stationery to 200 students

Wolfram Summer Research Programme

2026

Project link: <https://community.wolfram.com/groups/-/m/t/3751389>

- Selected as 1 of 84 participants from 600+ highly-qualified applicants (14% acceptance rate) to attend a highly competitive computational research programme
- Used Wolfram Language to implement and model ancient Greek musical systems, analysing frequency ratios and reconstructing lyre tuning structures, and completed an independent research paper
- Received an extended offer to do the Teaching Assistant preparation programme and Wolfram Emerging Leaders Program (WELP)

SCHOOL LEADERSHIP

President, Psychology Club, Cardiff Sixth Form College (to be updated mid october)

2026 — 2027

- Lead psychology discussions, behavioural science activities, and student engagement initiatives
- Organizing X psychology events and AI ethics discussions across the X member school community

International Youth Neuroscience Association, Cardiff Sixth Form College (to be updated mid october)

2026 — 2027

- Founded Cardiff's first International Youth Neuroscience Association chapter
- Organize neuroscience lectures, journal clubs, and student research discussions

Founder, Girl Up HIXS, Heritage International Xperiential School

2024 — 2025

- Organised initiatives promoting leadership, community engagement, and social impact

SUMMER PROGRAMS

Hinksey Scholars Research Programme

2026

[Link to instagram post about me being a stellar student](#)

- Awarded merit scholarship to join a selective international cohort of high school researchers, mentored by Ivy League and Oxbridge PhDs and industry experts from organisations including Google, BCG, and Goldman Sachs
- Authoring an independent business research paper [investigating a real-world challenge faced by an organisation, developing skills in research design, business analysis, and academic writing](#)

Summer@ Brown, Brown Pre-College Programme

2024

- Completed the Ethics of Biomarkers course, studying how biomarkers are developed, validated, and ethically deployed in clinical and research settings
- Engaged with the Belmont Report and core frameworks around research justice, informed consent, and scientific responsibility toward vulnerable populations

Johns Hopkins Global Health Leaders Conference

2026

Accepted (approx.. 9% acceptance rate) to JHU's international global health education programme, engaging with lectures from world leaders in global health, public health, and medicine across the JHU Bloomberg School of Public Health and School of Medicine

COMMUNITY IMPACT

FuelADream Crowdfunding Campaign

2026

- Raised \$3500 in 2 weeks to fund training for 2,650 doctors in India on culturally adapted dementia assessment tools & emerging research on ADHD-Alzheimer's continuum
- Educated doctors on the overlapping cognitive symptoms, and shared genetic and neurological markers between ADHD and Alzheimer's
- Collaboration with Medibrains Welfare Foundation

Project Lead, Community Water Quality Project

2025

- Designed and led a community awareness initiative teaching 60 children simple methods to identify potentially harmful compounds in drinking water
- Demonstrated accessible water-quality testing techniques and educated 15 families about safe drinking water practices

Project Art on Walls: Jaipur School Service Project

2022

Led by Swapna Maini, this community service project enabled 12 students alongside Aahana to paint the walls of a government school in Jaipur as a weekend project, directly impacting its 200+ students. Aahana played a contributory role to painting and managing resources over that weekend.

COMPOSITION, MUSIC, & PERFORMING ARTS

Vocal Performer, Cardiff Sixth Form College

2025 — Present

- Winter Showcase: Chosen to perform a Billie Eilish song ('I Love You') for the Christmas talent showcase 2025
- Eisteddfod: Represented Morgan House as the House Vocalist singing 'She Used To Be Mine' by Sara Bareilles 2026
 - Morgan House won the 2026 Eisteddfod

Composer, Educational Music

- Independently composed more than 200 original educational songs for Sahitya, supporting phonics, literacy, and early childhood learning

Trinity College London Music Examinations

2020 — Present

- Rock and Pop Vocals: Grade 6
- Piano: Grade 5

Author, Poetry

2020 — Present

Author of a collection of approximately 20 original poems exploring identity, memory, and human experience

LANGUAGES

English (Native) • Hindi (Native)