ANGAD SAHNI

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PUBLICATIONS

2022 **Deterioration in cognitive control underlying development of treatment resistance in early psychosis.**

(Submitted for publication)

The role of cognitive control in the positive symptoms of psychosis.

https://doi.org/10.1016/j.nicl.2022.103004

OUTREACH

2022 **Reading Scholars.**

- Gave presentations about my research to A-level students interested in psychology.
- Used to recruit participants for online task.

RELEVANT EXPERIENCE

2020-2021   **fMRI Data Analysis Using SPM.**

Under Dr. Charlotte Horne, as an extension of MSc.

- Bias data from a reinforcement learning task, performed by early psychosis subjects, was analysed.
  - Emotional bias acts as a proxy for cognitive control capabilities.
- Work contributed to potential publication (submitted in 2021).

EDUCATION

2021-   **PhD Candidate in Neuroscience, University of Reading.**

Supervisor: Professor Ciara McCabe (NRG).

2019-2020   **Psychiatric Research MSc, King's College London (Distinction).**

Supervisor: Dr. Charlotte Horne (CSI Lab).

Dissertation: Negative Symptom Severity and Subcortical Reward Prediction Error Signal Correlation in First-Episode Psychosis.

2015-2019   **Gap Between The Courses.**

- I sought counselling for depression at UCL during the final year and after graduation.
  - I worked part-time and saved up to pursue another MSc course.
- I remained committed to forging a career in academia and that motivated me to persevere through this.

2011-2015   **Neuroscience Integrated-MSc, UCL (Upper Second-Class).**

Supervisor: Dr. Brian King.

Dissertation: $P2X_2$ Receptor Co-Agonist: A New Role of UTP.

2009-2011   **Forest School, Winnersh. RG41 5NE.**

Subjects: Mathematics, Biology, Chemistry and Physics.

Results: 4 A*s.

AWARDS

2021-2024   **University Of Reading Regional Bursary.**

- Awarded based on proposed project's contribution to the local community.

2013   **Wellcome Trust Summer Studentship, Frances Edwards Lab, UCL.**

- The lab had designed mouse models of Alzheimer's Disease using the human genes involved in the disease, called TASTPM models.
- The studentship taught skills involved in a biochemical lab, such as running western and southern blots, and quantitative PCR.
- Experience with patch-clamping techniques, investigating potentiation capacities of hippocampal glutamatergic synapses.

RELEVANT SKILLS

Extensive Experience With SPM, SPSS And 'R'.

Javascript, PHP, HTML, CSS, Python Languages. Matlab Programming.

One-To-One Tutoring And Group Teaching Experience. Marking Posters And Project Reports.

Fluent In Hindi And Punjabi, Proficient In Urdu.

Charcoal And Pastel Landscape Artist.

- Creativity, a vital core of research.

Passionate About Philosophy, Especially Eastern.

- Skill of in-depth critical thinking; epistemological, ontological reasoning.

TEACHING

2021- **MSc Student Supervision.**

- Part of my project formed the student's dissertation, using experience sampling methodology (ESM).
- I guided their literature understanding, data analysis using R.

2021- **Demonstrator For Statistics Modules, Methods In Neuroscience, And Cognitive And Biological Psychiatry.**

- SPSS, G*Power for 1st and 2nd year psychology students, and theoretical understanding behind statistical tests.
- My neuroscience background allowed me to lead tutorials, covering basic neuroscience and methods of understanding literature for 1st year psychologists.

VOLUNTEERING

2011-2014 **ReachOut London Charity.**

- Tutor with charity, helping primary school students - from lower income families - to catchup and additional help with syllabus.
- Designed and taught weekly 45-minute lessons in Mathematics.