

ANGAD SAHNI

Date of Birth: 26-Aug-1993

Email

Personal: angad9308@gmail.com | **Work:** a.sahni@pgr.reading.ac.uk

PUBLICATIONS

2022

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

(Submitted for publication)

Charlotte M Horne, **Angad Sahni**, Sze W Pang, Lucy D Vanes, Timea Szentgyorgyi, Bruno Averbek, Rosalyn J Moran, Sukhwinder S Shergill.

The role of cognitive control in the positive symptoms of psychosis. (*Accepted: 4-Apr-22*)

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

Horne, Charlotte; **Sahni, Angad**; Pang, Sze; Vanes, Lucy; Szentgyorgyi, Timea; Averbek, Bruno; Moran, Rosalyn; Shergill, Sukhi.

OUTREACH

2022

Reading Scholars Presentations.

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

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

Under Dr. Charlotte Horne, as an extension from 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).
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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.
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2011-2015 **Neuroscience Integrated-MSc, UCL (Upper Second-Class).**

Supervisor: Dr. Brian King.

Dissertation: P2X₂ 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.
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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.
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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.
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Passionate About Philosophy, Especially Eastern.

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