

# ANGAD SAHNI

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## PUBLICATIONS

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**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.

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**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.

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## OUTREACH

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**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

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### 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

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

**Supervisor:** Professor Ciara McCabe (NRG).

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### 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.

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### 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:** P2X<sub>2</sub> Receptor Co-Agonist: A New Role of UTP.

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

**Subjects:** Mathematics, Biology, Chemistry and Physics.

**Results:** 4 A\*s.

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## AWARDS

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**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

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### **Extensive Experience With SPM, SPSS And 'R'.**

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

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

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**Fluent In Hindi And Punjabi, Proficient In Urdu.**

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**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

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| <b>2021-</b> | <b>MSc Student Supervision.</b> <ul style="list-style-type: none"><li>• Part of my project formed the student's dissertation, using experience sampling methodology (ESM).</li><li>• I guided their literature understanding, data analysis using R.</li></ul>  |
| <hr/>        |   |
| <b>2021-</b> | <b>Demonstrator For Statistics Modules, Methods In Neuroscience, And Cognitive And Biological Psychiatry.</b> <ul style="list-style-type: none"><li>• SPSS, G*Power for 1<sup>st</sup> and 2<sup>nd</sup> year psychology students, and theoretical understanding behind statistical tests.</li><li>• My neuroscience background allowed me to lead tutorials, covering basic neuroscience and methods of understanding literature for 1<sup>st</sup> year psychologists.</li></ul> |
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## VOLUNTEERING

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| <b>2011-2014</b> | <b>ReachOut London Charity.</b> <ul style="list-style-type: none"><li>• Tutor with charity, helping primary school students - from lower income families - to catchup and additional help with syllabus.</li><li>• Designed and taught weekly 45-minute lessons in Mathematics.</li></ul> |
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