

# ANGAD SAHNI

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## PUBLICATIONS

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2022

**Deterioration in cognitive control underlying development of treatment resistance in early psychosis. (CSI lab)**

(Submitted for publication)

**The role of cognitive control in the positive symptoms of psychosis. (CSI lab)**

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

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**2022**

**Reading Scholars.**

- Gave presentations about my research to A-level students interested in psychology.
- Used it to recruit participants for online task.
- Ran the summer residential; students presented posters using their own data from online task.

**St. Joseph's College**

**Bulmershe School**

**Psychology Taster Session**

- Research presentation.
  - Used it for task data and forming "youth advisory group".
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## EDUCATION

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- 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<sub>2</sub> 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.
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## RELEVANT EXPERIENCE

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### **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).
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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.

### **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'.**

**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.
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## TEACHING

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**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 1<sup>st</sup> and 2<sup>nd</sup> 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 1<sup>st</sup> year psychologists.
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## VOLUNTEERING

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**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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