

# 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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## OUTREACH

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**2022**

**Reading Scholars.**

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

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<b>2021-</b>	<b>PhD Candidate in Neuroscience, University of Reading.</b>  <b>Supervisor:</b> Professor Ciara McCabe (NRG).
<b>2019-2020</b>	<b>Psychiatric Research MSc, King's College London (Distinction).</b>  <b>Supervisor:</b> Dr. Charlotte Horne (CSI Lab).  <b>Dissertation:</b> Negative Symptom Severity and Subcortical Reward Prediction Error Signal Correlation in First-Episode Psychosis.
<b>2015-2019</b>	<b>Gap Between The Courses.</b> <ul style="list-style-type: none"><li>• I sought counselling for depression at UCL during the final year and after graduation.<ul style="list-style-type: none"><li>○ I worked part-time and saved up to pursue another MSc course.</li></ul></li><li>• I remained committed to forging a career in academia and that motivated me to persevere through this.</li></ul>
<b>2011-2015</b>	<b>Neuroscience Integrated-MSc, UCL (Upper Second-Class).</b>  <b>Supervisor:</b> Dr. Brian King.  <b>Dissertation:</b> P2X <sub>2</sub> Receptor Co-Agonist: A New Role of UTP.
<b>2009-2011</b>	<b>Forest School, Winnersh. RG41 5NE.</b>  <b>Subjects:</b> Mathematics, Biology, Chemistry and Physics.  <b>Results:</b> 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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