

Dr Anthony S Gabay

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Academic employment history

November 2018 – November 2019: **Economic and Social Research Council Postdoctoral Fellow**

- University of Oxford, Department of Experimental Psychology

June 2017 – November 2018: **Postdoctoral Research Associate**

- King's College London, Institute of Psychology, Psychiatry & Neuroscience

Education

King's College London (September 2013 – April 2017)

- **PhD in Neuroimaging** – “An investigation of social cognition using psilocybin and MDMA”

King's College London (September 2011 – September 2012)

- **MSc Neuroscience** Pass with Distinction

The Open University (January 2007 – December 2010)

- **BSc Psychology** 1st Class Honours

South Island School, Hong Kong (September 1990 – July 1997)

- Three A Levels: Biology (B) Chemistry (C) Physics (C)

Grants

- Christ Church Research Centre grant (co-investigator), July 2019 “A predictive framework of relationships between psychiatric symptoms and social behaviour” [£5,980]
- Economic and Social Research Council Postdoctoral Fellowship, Nov 2018 – Nov 2019 [£95,333]

Publications

- Dipasquale O, Selvaggi P, Veronese M, **Gabay AS**, Turkheimer F, Mehta MA (2019) Receptor-Enriched Analysis of functional Connectivity by Targets (REACT): A novel, multimodal

analytical approach informed by PET to study the functional topography of the brain under MDMA, *Neuroimage* 195: 252 – 260

- **Gabay AS**, Kempton MJ, Gilleen J, Mehta MA (2019) MDMA increases cooperation and recruitment of social brain regions when interacting with trustworthy players during an iterated Prisoner's Dilemma, *Journal of Neuroscience* 39 (2), 307-320
- Martins D, **Gabay AS**, Paloyelis Y (2018) Neural substrates underpinning anticipation and receipt of social reward and punishment: a neuroimaging meta-analysis of the Social Incentive Delay task, *PROSPERO International prospective register of systematic reviews* http://www.crd.york.ac.uk/PROSPERO/display_record.php?ID=CRD42018099881
- **Gabay AS**, Carhart-Harris R, Mazubuko N, Kempton MJ, Morrison PD, Nutt DJ, Mehta MA (2018) Psilocybin and MDMA reduce costly punishment in the Ultimatum Game, *Sci Reports*, 8, Article number: 8236
- Tully J, **Gabay AS**, Brown D, Murphy D, Blackwood, N (2017) The effect of intranasal oxytocin on response to facial emotions in healthy adults as measured by functional MRI: a systematic review, *Psychiatry Research: Neuroimaging*, 272: 17-29
- **Gabay AS**, Kempton MJ, Mehta MA (2014) Facial affect processing deficits in schizophrenia: A meta-analysis of antipsychotic treatment effects, *J Psychopharmacol*, 29(2): 1- 6
- **Gabay AS**, Radua J, Kempton MJ, Mehta MA (2014) The Ultimatum Game and the brain: a meta-analysis of neuroimaging studies, *Neurosci Biobehav Rev*, 47: 549-58
- Walsh E, Mehta MA, Oakley DA, Guilmette DN, **Gabay A**, Halligan PW, Deeley Q (2014) Using suggestion to model different types of automatic writing, *Conscious Cogn*, 16:24-36

Conference oral presentations

- “MDMA Increases Cooperation and Recruitment of Social Brain Areas When Playing Trustworthy Players in an Iterated Prisoner's Dilemma”, Society for NeuroEconomics (Dublin, Ireland, October 2019)
- **Invited presentation:** “The effect of MDMA on social decision-making”; 19th Symposium of Biological Decision Making (April 2019)
- “MDMA administration produces context-specific alterations to social decision-making”, Breaking Convention (London, UK, June 2017)

Conference poster presentations

- Poster: “Plenty more fish in the sea: People forage for fairness among potential social partners”, Society for NeuroEconomics (Dublin, Ireland, October 2019)

- Poster: Dipasquale O, Selvaggi P, Veronese M, Mehta M, **Gabay AS**, Williams S, Turkheimer F “Neuropharmacological fMRI of MDMA – A Novel, Multimodal Analytical Approach Informed by PET”, International Society for Magnetic Resonance in Medicine (Rome, Italy, June 2018)
- Poster: **Gabay AS**, Kempton MJ, Mehta MA “MDMA increases activity of social brain areas and cooperative responses when interacting with trustworthy players during an iterated Prisoner’s Dilemma”, British Association for Psychopharmacology (Harrogate, UK, July 2017)
- Poster: **Gabay AS**, Kempton MJ, Mehta MA “MDMA modulates behaviour in the Prisoner's Dilemma and Ultimatum Game”, Psychedelic Science (Oakland, USA, April 2017)
- Poster: **Gabay AS**, Kempton MJ, Mehta MA “MDMA increases recruitment of social brain areas when interacting with cooperative players during an iterated Prisoner’s Dilemma”, British Neuroscience Association Festival of Neuroscience (Birmingham, UK, April 2017); Brain and Neuroscience Advances
- Poster: **Gabay AS**, Kempton MJ, Mehta MA “Reliability of the Ultimatum Game: implications for developing interventions for social cognition”, British Neuroscience Association Festival of Neuroscience (Edinburgh, UK, April 2015)
- Poster: **Gabay AS**, Radua J, Kempton MJ, Mehta MA “The Ultimatum Game and the brain: a meta-analysis of neuroimaging studies”, FENS Social Brain (Copenhagen, Denmark, October 2014)
- Poster: **Gabay AS**, Kempton MJ, Mehta MA “Facial affect processing deficits in schizophrenia: A meta-analysis of antipsychotic treatment effects”, *Journal of psychopharmacology supplement to volume 28, issue 8* (Cambridge, UK, July 2014)

Invited presentations

- “Social decision-making and novel therapeutic agents”; Presentation to Roehampton University Psychology Departmental Seminar series
- “Investigating the molecular mechanisms of psilocybin’s effects on brain and behavior”; Presentation to the Imperial College London, Division of Brain Sciences (June 2016)
- “Investigating the molecular mechanisms of psilocybin’s effects on brain and behavior”; Presentation to the Maudsley Psychedelic Society (April 2016)
- “Gravy Train: development of meta-analytic method for functional connectivity data”; Presentation to Psychosis Studies, Institute of Psychiatry, Psychology & Neuroscience, King’s College London (March 2016)
- “The psychopharmacology of social and emotional cognition”; Institute of Psychiatry, Psychology & Neuroscience, King’s College London, Student Showcase (April 2015)

Relevant skills

- Programming proficiency in: Matlab, R

- Functional neuroimaging analysis (task and resting state)
- Task development
- Project and data management, participant recruitment, statistical analysis, ethics applications
- Good Clinical Practice