

TRICIA X.F. SEOW

Max Planck UCL Centre for Computational Psychiatry and Ageing Research

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EDUCATION

PhD in Psychology 2017 - 2020
Trinity College Dublin, Ireland

Supervisor: Dr Claire Gillan
Dissertation: The Neurocognitive Correlates of Compulsivity
Funded by TCD Postgraduate Ussher Fellowship

Msci Neuroscience 2011 - 2015
University College London, United Kingdom

Supervisor: Prof Laurence Hunt
Thesis: Choice Dynamics with MEG
Graduated First Class Honours, Burnstock Prize (Year Three & Four)

APPOINTMENTS

Research Fellow 2020 - present
Max Planck UCL Centre for Computational Psychiatry and Ageing Research
University College London, United Kingdom

Supervisor: Prof Tobias Hauser
Neurocognitive Mechanisms of OCD and OCD therapy
Funded by Sir Henry Wellcome Postdoctoral Fellowship (2022 onwards)

Research Assistant 2015 - 2016
Wellcome Trust Centre for Neuroimaging
University College London, United Kingdom

Supervisor: Prof Stephen Fleming
Metacognition and Visual Consciousness

Intern 2013 - 2014
Institute of Cognitive Neuroscience
University College London, United Kingdom

Supervisor: Dr Raphael Köster & Prof Emrah Düzel
Emotion and Decision Making

GRANTS

Sir Henry Wellcome Postdoctoral Fellowship: £300,000/4 years 2022

TCD Postgraduate Ussher Fellowship: €13,000 per annum/3 years 2017

AWARDS

Best selected talk at Society for Neuroscience Singapore Chapter 2022	2022
UCL IoN Public Engagement Recognition Silver Badge	2022
Guarantors of Brain Travel Award for BAP 2019	2019
Trinity College Travel Grant for SOBP 2019	2019
Guarantors of Brain Travel Award for SFN 2017	2017
Burnstock Prize (Best Year Four cohort performance)	2015
The Dean's List - UCL Faculty of Life Sciences (Year Four)	2015
Burnstock Prize (Best Year Three cohort performance)	2014
The Dean's List - UCL Faculty of Life Sciences (Year Three)	2014
The Dean's List - UCL Faculty of Life Sciences (Year Two)	2013

PRESENTATIONS

Talk: UCL Education conference presentation, UCL, London, UK	2023
Talk: Consciousness Club, UCL, Online Meeting	2023
Talk: Society for Neuroscience Singapore Chapter Annual Symposium, Singapore	2022
Talk: Computations of agency and metacognition in mental health workshop, ICN UCL, London, UK	2022
Poster: Federation of European Neuroscience Societies Forum 2022, Paris, France	2022
Talk: The College on Problems of Drug Dependence 2022, Minnesota, US	2022
Talk: Challenges and new approaches in Cognitive Computational (neuro)Psychiatry 2021, Virtual Symposium	2021
Talk: Computational Modelling in Development, FLUX 2021, Online Meeting	2021
Talk: British Association for Psychopharmacology 2021, Online Meeting	2021
Poster: Symposium on Biology of Decision Making 2021, Paris, France (virtual)	2021
Talk: Computational Psychiatry Seminar, Max Planck UCL, London, UK	2020
Poster: Society for NeuroEconomics 2019, Dublin, Ireland	2019
Poster: British Association for Psychopharmacology 2019, Manchester, UK	2019
Poster: Society for Biological Psychiatry 2019, Chicago, Illinois, US	2019
Talk: Friko Seminar Series, Max Planck, Tübingen, Germany	2019
Poster: Society for Neuroscience 2017, Washington DC, US	2017

PUBLICATIONS **First author equal contribution*

C. A. Fox, C. T. Lee, A. Hanlon, <u>T. Seow</u> , K. Lynch, S. Harty, D. Richards, J. Palacios, V. O'Keane, K. E. Stephan and C. Gillan. Metacognition in anxious-depression is state-dependent: an observational treatment study. PsyArXiv	2023
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- A. M. Loosen, T. X.F. Seow and T.U. Hauser. Consistency within change: Evaluating the psychometric properties of a widely-used predictive-inference task. PsyArXiv 2022
- T. X.F. Seow*, M. Rouault*, C. M. Gillan and S. M. Fleming. Correspondence: Computational approaches are compatible with the depth and breadth of metacognition. *Biological Psychiatry*, 91(8), pp 33-34. doi: 10.1016/j.biopsych.2021.11.005 2022
- T. X.F. Seow, and T. U. Hauser. Reliability of web-based affective auditory stimulus presentation. *Behaviour Research Methods*. doi: 10.3758/s13428-021-01643-0 2021
- T. X.F. Seow*, M. Rouault*, C. M. Gillan and S. M. Fleming. How local and global metacognition shape mental health. *Biological Psychiatry*, 9(7), pp 436-446. doi: 10.1016/j.biopsych.2021.05.013 2021
- T. X.F. Seow, E. Benoit, C. Dempsey, M. Jennings, A. Maxwell, O'Connell, R., and C. M. Gillan. Model-based learning deficits in compulsivity are linked to faulty representations of task structure. *Journal of Neuroscience*, 1(30), pp 6539-6550. doi: 10.1523/JNEUROSCI.0031-21.2021 2021
- T. X.F. Seow, E. Benoit, C. Dempsey, M. Jennings, A. Maxwell, M. McDonough and C. M. Gillan. Null results from a dimensional investigation of error-related negativity (ERN) and self-reported psychiatric symptoms. *International Journal of Psychophysiology*, 158, pp 340-348. doi: 10.1016/j.ijpsycho.2020.09.019 2020
- C. M. Gillan and T. X.F. Seow. Carving out new transdiagnostic dimensions for research in mental health. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, 5(10), pp 932-934. doi: 10.1016/j.bpsc.2020.04.013 2020
- T. X.F. Seow and C. M. Gillan. Transdiagnostic phenotyping reveals a host of metacognitive deficits implicated in compulsivity. *Scientific Reports* 10, 2883, doi: 10.1038/s41598-020-59646-4 2020
- D. Rahnev et al., [including T. X.F. Seow]. The confidence database. *Nature Human Behaviour*, pp 1-8. doi: 10.1038/s41562-019-0813-1 2020
- T. Seow and S. M. Fleming. Perceptual sensitivity is modulated by what others can see. *Attention, Perception & Psychophysics* 81(6), pp 1979-1990. doi: 10.3758/s13414-019-01724-5 2019
- M. Rouault*, T. Seow*, C. M. Gillan and S. M. Fleming. Psychiatric symptom dimensions are associated with dissociable shifts in metacognition but not task performance. *Biological Psychiatry* 84(6), pp 443-451. doi: 10.1016/j.biopsych.2017.12.017 2018
- R. Köster, T. X. Seow, R. J. Dolan and E. Düzel. Stimulus novelty energizes actions in the absence of explicit reward. *PLoS One* 11(7): e0159120. doi: 10.1371/journal.pone.0159120 2016

TEACHING / MENTORING

- Lecturer/Marker for Higher Functions of the Brain (CLNE0003) 2023
- Lecturer/Marker for Psychopharmacology (PHAR0015) 2023
- Lecturer for Neuroscience of Emotion and Decision Making (PSYCH0088) 2023

Co-supervision of UCL Clinical Neuroscience Msc student	2022 - <i>present</i>
IoN Personal Tutor	2022 - <i>present</i>
IoN Under-Represented Students Mentorship Scheme mentor	2022 - <i>present</i>
Lecturer/Marker for Critical Appraisal (CLNE0007)	2022 - <i>present</i>
Co-supervision of UCL Brain and Mind Science Msc student	2021 - 2022
In2research Programme mentor (3 Bsc students)	2020 - 2021
Teaching assistant for R Programming Workshop at TCD GBHI	2019
Co-supervision of 5 TCD Psychology Bsc students	2017 - 2018

COMMUNITY INVOLVEMENT

Researcher Leaders in Action panel	2023
Organiser for Max Planck UCL Centre weekly departmental seminar series (Computational Psychiatry Talks)	2022 - <i>present</i>
Interviewer panel for 7 roles	2022 - <i>present</i>
OCD and the Brain public engagement project	2022 - <i>present</i>
ECR representative for UCL IoN EDI committee	2021 - <i>present</i>
Technical support for TCD GBHI Atlantic Fellows classes	2019
Peer reviewer for 15 journals	2018 - <i>present</i>
TCD Neuroscience Society committee member	2017 - 2018