

TRICIA X.F. SEOW

Max Planck UCL Centre for Computational Psychiatry and Ageing Research
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APPOINTMENTS

Senior Research Fellow	2024 - present
Research Fellow	2020 - 2024
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 (Jan 2022 onwards)	
Research Assistant	2015 - 2016
Wellcome Trust Centre for Neuroimaging	
University College London, United Kingdom	
Supervisor: Prof Stephen Fleming	
Metacognition and Visual Consciousness	
Undergraduate Intern	2013 - 2014
Institute of Cognitive Neuroscience	
University College London, United Kingdom	
Supervisor: Dr Raphael Köster & Prof Emrah Düzel	
Emotion and Decision Making	

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)	

AWARDS

UCL WCHN Public Engagement Rising Star Award Nominee	2023
Best selected talk at Society for Neuroscience Singapore Chapter 2022	2022
UCL WCHN Public Engagement Recognition Silver Badge	2022
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

GRANTS

Sir Henry Wellcome Postdoctoral Fellowship: £300,000/4 years	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
TCD Postgraduate Ussher Fellowship: €13,000 per annum/3 years	2017

PRESENTATIONS

Talks

Cognitive Computational Neuroscience 2024, Massachusetts, US	2024
Wellcome Researcher Meeting, Birmingham, UK	2024
UCL Education Conference 2023, UCL, London, UK	2023
Consciousness Club, UCL, Online Meeting	2023
Society for Neuroscience Singapore Chapter Annual Symposium, Singapore	2022
Computations of agency and metacognition in mental health workshop, ICN UCL, London, UK	2022
The College on Problems of Drug Dependence 2022, Minnesota, US	2022
Challenges and new approaches in Cognitive Computational (neuro)Psychiatry 2021, Virtual Symposium	2021
Computational Modelling in Development, FLUX 2021, Online Meeting	2021
British Association for Psychopharmacology 2021, Online Meeting	2021
Computational Psychiatry Seminar, Max Planck UCL, London, UK	2020
Friko Seminar Series, Max Planck, Tübingen, Germany	2019

Posters

Cognitive Computational Neuroscience 2024, Massachusetts, US	2024
Computational Psychiatry Conference 2023, Dublin, Ireland	2023
UCL Neuroscience Symposium 2023, UCL, London, UK	2023
Federation of European Neuroscience Societies Forum 2022, Paris, France	2022
Symposium on Biology of Decision Making 2021, Paris, France (virtual)	2021
Society for NeuroEconomics 2019, Dublin, Ireland	2019
British Association for Psychopharmacology 2019, Manchester, UK	2019
Society for Biological Psychiatry 2019, Chicago, Illinois, US	2019
Society for Neuroscience 2017, Washington DC, US	2017

Forums

ECNP New Frontiers Meeting 2024, Nice, France	2024
Wellcome Trust Bridging the gap: Neuroscience and Clinical Practice in Mental Health Workshop, London, UK	2023

Exhibition stalls

New Scientist Live 2024, London, UK	2024
Royal Society Lates: what's on your mind?, London, UK	2024
ocdaction National Conference 2023, London, UK	2023

PUBLICATIONS *First author papers* *Equal contribution

<u>T. X.F. Seow, L. Jelinek, S. Mortiz and T. U. Hauser.</u> Towards an integrative understanding of metacognitive mechanisms in psychopathology. Invited by <i>Nature Reviews Psychology</i> (in prep)	2025
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- T. X.F. Seow, J. McFadyen, R. J. Dolan and T. U. Hauser.** Biased replay of aversive and uncertain outcomes underlies irrational decision making. *BioRxiv*. doi: 10.1101/2025.01.17.633533 (*Nature*, submitted) 2025
- C. A. Fox, V. Teckentrup, K. R. Donegan, T. X.F. Seow, C. Benwell, B. Tervo-Clemmens and C. Gillan.** Cognitive arbitration between candidate dimensions of psychopathology. *PsyRxiv*. doi: 10.31234/osf.io/7waey (*Molecular Psychiatry*, under review) 2024
- 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. *Behaviour Research Methods*. doi: 10.3758/s13428-024-02427-y 2024
- T. X.F. Seow, S. M. Fleming and T. U. Hauser.** Metacognitive biases in anxious-depression and compulsivity extend across perception and memory. *PsyRxiv*. doi: 10.31234/osf.io/avyph (*PLOS Mental Health*, under review) 2024
- T. X.F. Seow and T.U. Hauser.** Reliability of anxiety and harm ratings of animal and tool visual stimuli. *Open Wellcome Research*. doi:10.12688/wellcomeopenres.20693.1 2024
- C. A. Fox, C. T. Lee, A. Hanlon, T. Seow, K. Lynch, S. Harty, D. Richards, J. Palacios, V. O'Keane, K. E. Stephan and C. Gillan.** An observational treatment study of metacognition in anxious-depression. *eLife*. doi: 10.7554/eLife.87193. 2023
- 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.** 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 energises actions in the absence of explicit reward. *PLoS One* 11(7): e0159120. doi: 10.1371/journal.pone.0159120 2016

TEACHING & SUPERVISION

IoN PhD upgrade examiner	2024
Marker for Msc Clinical Neuroscience thesis (2 Msc)	2023 - present
Lecturer/Marker for Higher Functions of the Brain (CLNE0003)	2023 - present
Lecturer/Marker for Psychopharmacology (PHAR0015)	2023 - present
Lecturer for Neuroscience of Emotion and Decision Making (PSYCH0088)	2023 - present
Co-supervision of Tübingen CaCTuS Intern	2023
Co-supervision of UCL Clinical Neuroscience Msc student	2022 - 2023
Lecturer/Marker for Research Methods/Critical Appraisal (CLNE0007)	2022 - 2024
Co-supervision of UCL Brain and Mind Science Msc student	2021 - 2022
Teaching assistant for R Programming Workshop at TCD GBHI	2019
Technical support for TCD GBHI Atlantic Fellows classes	2019
Co-supervision of 5 TCD Psychology Bsc students	2017 - 2018

MENTORING

IoN Academic Mentoring Scheme mentor (1 Msc)	2023 - present
IoN Personal Tutor (9 Msc students)	2022 - present
IoN Under-Represented Students Mentorship Scheme mentor (1 Bsc, 2 Msc)	2022 - present
In2research Programme mentor (3 Bsc students)	2020 - 2021

COMMUNITY INVOLVEMENT

IoN Athena SWAN self-assessment team member	2023 - present
Festival of Early Stage Researchers (FESR) Leadership in Action panellist	2023
Organiser of Max Planck UCL Centre Computational Psychiatry Seminar series (70 talks)	2022 - present
University of Tübingen Interviewer panellist for (7 roles)	2022 - 2023
UCL IoN Interviewer panellist (2 roles)	2022 - 2023
OCD and the Brain public engagement project	2022 - 2023
<ul style="list-style-type: none"> Awarded ERC Public Engagement with Research Award 2024 Awarded UCL WCHN Outstanding Public Engagement Award 2023 	
ECR representative for UCL IoN EDI committee	2021 - present
TCD Neuroscience Society committee member	2017 - 2018

AD-HOC PEER REVIEW

Wellcome Trust, Nature Human Behaviour, Biological Psychiatry, Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, Neuroscience and Biobehavioral Reviews, Translational Psychiatry, Psychological Medicine, International Journal of Mental Health and Addiction, NeuroImage, Research Behavior Methods, Human Brain Mapping, British Journal of Psychiatry, PLOS Computational Biology, Scientific Reports, BMC Psychiatry, Social Cognitive and Affective Neuroscience, Heliyon, Brain and Behavior, Consciousness and Cognition

Reviewed abstracts for the Computational Psychiatry Conference 2024, Cognitive Computational Neuroscience Conference 2024