

# 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: Dr 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: Dr 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: Dr Stephen Fleming  
Metacognition and Visual Consciousness

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

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

## AWARDS

UCL IoN Public Engagement Recognition Silver Badge 2022

Sir Henry Wellcome Postdoctoral Fellowship 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	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**

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

## **PUBLICATIONS** \*First author equal contribution

<b>A. M. Loosen, T. X.F. Seow and T.U. Hauser.</b> Consistency within change: Evaluating the psychometric properties of a widely-used predictive-inference task. PsyArXiv	2022
<b>T. X.F. Seow*, M. Rouault*, C. M. Gillan and S. M. Fleming.</b> Correspondence: Computational approaches are compatible with the depth and breadth of metacognition. <i>Biological Psychiatry</i> , 91(8), pp 33-34. doi: 10.1016/j.biopsych.2021.11.005	2022
<b>T. X.F. Seow, and T. U. Hauser.</b> Reliability of web-based affective auditory stimulus presentation. <i>Behaviour Research Methods</i> . 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

## COMMUNITY INVOLVEMENT

Organiser for Max Planck UCL Centre weekly departmental seminar series (Computational Psychiatry Talks) 2022 - present

IoN Under-Represented Students Mentorship Scheme mentor 2022 - present

Co-supervision of UCL Brain and Mind Science Msc student 2022 - present

ECR representative for UCL IoN EDI committee 2021 - present

In2research Programme mentor 2020 - 2021

Technical support for TCD GBHI Atlantic Fellows classes 2019

Teaching assistant for R Programming Workshop at TCD GBHI 2019

Peer reviewer for 11 journals 2018 - present

Co-supervision of 5 TCD Psychology Bsc students 2017 - 2018

TCD Neuroscience Society - Ordinary committee member 2017 - 2018