

LUKAS J. GUNSCHERA

MRC Cognition and Brain Sciences Unit
University of Cambridge
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EDUCATION

University of Cambridge – MRC Cognition and Brain Sciences Unit PhD, Medical Science	Oct 2023 – present <i>Cambridge, UK</i>
University of Amsterdam Master of Science, Psychological Research (cum laude)	Sep 2020 – Sep 2022 <i>Amsterdam, The Netherlands</i>
Radboud University Bachelor of Science (Honours), Psychology (cum laude)	Sep 2017 – Sep 2020 <i>Nijmegen, The Netherlands</i>

ACADEMIC POSITIONS

University of Cambridge – Cognition and Brain Sciences Unit PhD Student (full time)	Oct 2023 – present <i>Cambridge, UK</i>
Research examining cognitive signatures of risk and resilience for the relationship between digital media and well-being, combining computational modeling and longitudinal approaches. <i>Supervision: Amy Orben.</i>	
University of Cambridge – Cognition and Brain Sciences Unit Postgraduate Research Assistant (full time)	Oct 2022 – Oct 2023 <i>Cambridge, UK</i>
Research focused on the impact of digital technologies on wellbeing, examining reinforcement learning, habitual tendencies, and isolation in large social media datasets. <i>Supervision: Amy Orben.</i>	
University of Oxford Research Assistant (part time)	Nov 2021 – Nov 2022 <i>Oxford, UK</i>
Research on selective attention and learning deficits in psychopathic individuals and potential downstream consequences for decision-making and behavioural inhibition. <i>Supervision: Elaine Fox & Robin Murphy.</i>	
University of Amsterdam Teaching Assistant (part time)	Sep 2021 – Oct 2022 <i>Amsterdam, The Netherlands</i>
Courses: Addiction and compulsive disorders, scientific writing and presenting, meta-analysis	
University of Amsterdam – Habit Lab Research Assistant (part time)	Jul 2021 – Oct 2022 <i>Amsterdam, The Netherlands</i>
Managed and co-led a large longitudinal collaboration examining developmental trajectories of habits in Amsterdam, Cambridge, Helsinki, and Konstanz. Worked on projects examining habits and their relevance to social media use and clinical conditions. <i>Supervision: Sanne de Wit</i>	
University of Amsterdam – Lie Lab Research Assistant and Intern (part time)	Feb 2021 – Dec 2021 <i>Amsterdam, The Netherlands</i>
Research on antisocial behaviour, eye-tracking, and detection of lies in community and offender samples. <i>Supervision: Bruno Verschuere.</i>	

VISITING POSITIONS

University of Rotterdam Visiting Researcher	Jun 2024 – Jun 2024 <i>Rotterdam, The Netherlands</i>
University of Oxford Visiting Researcher (full time)	Oct 2019 – Nov 2019 <i>Oxford, UK</i>

SELECTED PUBLICATIONS

Gunschera, L.J., Dutton, K., Fox, E., Temple-McCune, A., Murphy, R. (2024). Overburdening associations: The dependency of psychopathy-related acquisitional learning deficits on processing load. *Personality and Individual Differences*. doi.org/10.1016/j.paid.2024.112705

Gunschera, L.J., Verschuere, B., Murphy, R., Temple-McCune, A., Dutton, K., Fox, E. (2023). No impaired integration in psychopathy: Evidence from an illusory conjunction paradigm. *Personality Disorders: Theory, Research, and Treatment*. doi.org/10.1037/per0000619.

Gunschera, L.J., Brazil, I.A., Driessen, J.M.A. (2022). Socio-economic decision-making and psychopathy: A systematic review and meta-analysis. *Neuroscience and Biobehavioural Reviews*. 10.1016/j.neubiorev.2022.104966

UNDER REVIEW AND PREPRINTS

Turner, G., **Gunschera, L.J.**, Subrahmanya, S., Salecha, A., Eichstaedt, J.C., Palminteri, S., Orben, A. (preprint). Computational model of reward learning and habits on social media.

De Wit, S., Bieleke, M., Fletcher, P.C., Horstmann, A., Schueler, J., Brinkhof, L.P., **Gunschera, L.J.**, Murre, J.M.J. [Registered report Stage 1 IPA]. The shape of habits: A multi-centre replication.

EVIDENCE FOR POLICY

Gunschera, L.J., Orben, A., Turner, G. (2024). Addressing Gaps in Digital Media Research: Pathways for Future Science and Policy. *European Joint Research Commission Report*.

Orben, A., **Gunschera, L.J.**, Turner, G. (2023). Written evidence for Initiative to protect youth mental health, safety, and privacy online. *National Telecommunications and Information Administration*. NTIA-2023-0008-0001

INVITED TALKS

Cognitive processes linking social media and mental health CERES, Jacobs Foundation	September 2024 Newport Beach, USA
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Cognitive phenotypes of social media risk and resilience SO-REBEL and SYNC research groups, University of Rotterdam	June 2024 Rotterdam, The Netherlands
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No impaired integration in psychopathy Personality disorder and addiction conference	Mar 2023 Utrecht, The Netherlands
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Do psychopaths suffer from impaired information integration? Netherlands Institute of Psychologists (NIP)	Feb 2023 Online
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PLACEMENTS

Radboud University Honours Programme	Sep 2018 – Sep 2020 Nijmegen, The Netherlands
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Radboud University Interdisciplinary Honours Programme	Jan 2018 – Jul 2018 Nijmegen, The Netherlands
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AWARDS AND RECOGNITIONS

UK Research and Innovation Medical Research Council Studentship	Oct 2023 – Sep 2027
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Wolfson College, Travel Award	May 2024
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American Psychological Association, Editor's Choice Award	Mar 2023
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Thesis Award, Netherlands Institute of Psychologists	Mar 2023
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Radboud Honours Academy, Honours Bachelor	Sep 2020
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Radboud Honours Academy, Honours Interdisciplinary	Sep 2018
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Radboud University, Propedeuse cum laude	Sep 2018
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TEACHING

Improving Scientific Practices in Cognitive Science University of Cambridge, MRC Cognition and Brain Sciences Unit	2024 Cambridge, UK
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Social and Developmental Psychology University of Cambridge, Girton College	2024 Cambridge, UK
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Meta-Analysis University of Amsterdam	2022 Amsterdam, The Netherlands
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Scientific Writing and Presenting
University of Amsterdam

2022
Amsterdam, The Netherlands

Addiction and Compulsive Disorders
University of Amsterdam

2021
Amsterdam, The Netherlands

PUBLIC ENGAGEMENT

Notes on Science	2024
Co-Founder	<i>Cambridge, UK</i>
Summer CAMP	2024
Supervisor	<i>Cambridge, UK</i>
Pint of Science	2024
Organising Member	<i>Cambridge, UK</i>
Open Science Day MRC Cognition and Brain Sciences Unit	14 Mar 2024
Co-Organiser	<i>Cambridge, UK</i>

PROFESSIONAL AFFILIATIONS

British Association for Psychopharmacology , Member	April 2024 - present
Wolfson College , Member	Oct 2023 - present
Cambridge Philosophical Society , Member	Oct 2023 - present
Cambridge Union , Member	Oct 2023 - present
Cambridge Journal of Science and Policy , Editor	Jan 2023 – present
Open Science Committee , Chair & Member	Oct 2022 - present
Psychonomic Society , Member	Jul 2022 - present
Society for Applied Research in Memory & Cognition , Member	Jan 2022 - present
Society for the Improvement of Psychological Science , Member	Mar 2023 – Mar 2024
Student Initiative for Open Science , Member	Jan 2021 – Oct 2022
University of Amsterdam , Student Delegate	Sep 2020 – Sep 2022

SKILLS

Programming	R, Stan, Git, SQL, MPLUS, Python, Docker, Inquisit, Lotus
Data acquisition	Electroencephalography, electrodermal, electrocardiography, respiration, eye-tracking
Formal Analyses	Bayesian inference, computational modeling, multilevel modeling, longitudinal modeling, structural equation modeling, meta-analysis

February 11th, 2025

