

# LUKAS J. GUNSCHERA

MRC Cognition and Brain Sciences Unit  
University of Cambridge  
United Kingdom

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## EDUCATION

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

## ACADEMIC POSITIONS

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<b>University of Cambridge – Cognition and Brain Sciences Unit</b> 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>	
<b>University of Cambridge – Cognition and Brain Sciences Unit</b> 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>	
<b>University of Oxford</b> 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 &amp; Robin Murphy.</i>	
<b>University of Amsterdam</b> Teaching Assistant (part time)	Sep 2021 – Oct 2022 <i>Amsterdam, The Netherlands</i>
Courses: Addiction and compulsive disorders, scientific writing and presenting, meta-analysis	
<b>University of Amsterdam – Habit Lab</b> 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>	
<b>University of Amsterdam – Lie Lab</b> 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

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

## SELECTED PUBLICATIONS

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**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

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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

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**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

## ACADEMIC POSITIONS

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**University of Cambridge – MRC Cognition and Brain Sciences Unit**  
PhD Student (full time)

Oct 2023 – present  
Cambridge, UK

Research examining cognitive signatures of risk and resilience for the relationship between digital media and well-being, combining computational modeling and longitudinal approaches. *Supervision: Amy Orben*.

**University of Cambridge – MRC Cognition and Brain Sciences Unit**  
Postgraduate Research Assistant (full time)

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**University of Amsterdam**  
Teaching Assistant (part time)

Sep 2021 – Oct 2022  
Amsterdam, The Netherlands

Courses: Addiction and compulsive disorders, scientific writing and presenting, meta-analysis

**University of Amsterdam – Habit Lab**  
Research Assistant (part time)

Jul 2021 – Oct 2022  
Amsterdam, The Netherlands

Managed and co-led a large longitudinal collaboration examining developmental trajectories of habits across four international research sites. Worked on projects examining social media use habits. *Supervision: Sanne de Wit*

**University of Amsterdam – Lie Lab**  
Research Assistant and Intern (part time)

Feb 2021 – Dec 2021  
Amsterdam, The Netherlands

Research on antisocial behaviour, eye-tracking, and detection of lies in community and offender samples. *Supervision: Bruno Verschuere*.

## VISITING POSITIONS

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### University of Rotterdam

Visiting Researcher

Jun 2024 – Jun 2024

*Rotterdam, The Netherlands*

### University of Oxford

Visiting Researcher (full time)

Oct 2019 – Nov 2019

*Oxford, UK*

## INVITED TALKS

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### Cognitive processes linking social media and mental health

CERES, Jacobs Foundation

September 2024

*Newport Beach, USA*

### Cognitive phenotypes of social media risk and resilience

SO-REBEL and SYNC research groups, University of Rotterdam

June 2024

*Rotterdam, The Netherlands*

### No impaired integration in psychopathy

Personality disorder and addiction conference

Mar 2023

*Utrecht, The Netherlands*

### Do psychopaths suffer from impaired information integration?

Netherlands Institute of Psychologists (NIP)

Feb 2023

*Online*

## PLACEMENTS

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### Radboud University

Honours Programme

Sep 2018 – Sep 2020

*Nijmegen, The Netherlands*

### Radboud University

Interdisciplinary Honours Programme

Jan 2018 – Jul 2018

*Nijmegen, The Netherlands*

## AWARDS AND RECOGNITIONS

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UK Research and Innovation Medical Research Council Studentship

Oct 2023 – Sep 2027

Wolfson College, Travel Award

May 2024

American Psychological Association, Editor's Choice Award

Mar 2023

Thesis Award, Netherlands Institute of Psychologists

Mar 2023

Radboud Honours Academy, Honours Bachelor

Sep 2020

Radboud Honours Academy, Honours Interdisciplinary

Sep 2018

Radboud University, Propedeuse cum laude

Sep 2018

## TEACHING

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### Improving Scientific Practices in Cognitive Science

University of Cambridge, MRC Cognition and Brain Sciences Unit

2024

*Cambridge, UK*

### Social and Developmental Psychology

University of Cambridge, Girton College

2024

*Cambridge, UK*

### Meta-Analysis

University of Amsterdam

2022

*Amsterdam, The Netherlands*

### Scientific Writing and Presenting

University of Amsterdam

2022

*Amsterdam, The Netherlands*

### Addiction and Compulsive Disorders

University of Amsterdam

2021

*Amsterdam, The Netherlands*

## PUBLIC ENGAGEMENT

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### Notes on Science

Co-Founder

2024

*Cambridge, UK*

### Summer CAMP

Supervisor

2024

*Cambridge, UK*

### Pint of Science

Organising Member

2024

*Cambridge, UK*

### Open Science Day MRC Cognition and Brain Sciences Unit

Co-Organiser

14 Mar 2024

*Cambridge, UK*

## PROFESSIONAL AFFILIATIONS

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

## SKILLS

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

February 11<sup>th</sup>, 2025

