Linden Parkes, Ph.D.

K99/R00 Postdoctoral Research Fellow, University of Pennsylvania

lindenparkes.com

✓ lindenmp@seas.upenn.edu

lindenmp

¥ LindenParkes

Research Interests

I am a **computational neuroscientist** seeking to uncover the pathways that track the emergence of psychopathology. I approach this goal from a neurobiological perspective by studying how complex neural systems shape behavior and cognition, and how dysfunction in these systems predicts psychopathology.

Academic Positions

Postdoctoral Research Fellow

Philadelphia, PA

University of Pennsylvania, Department of Bioengineering

July 2019 - present

o Advisors: Prof. Dani S. Bassett, Associate Prof. Theodore D. Satterthwaite

Visiting Scholar

Nijmegen, The Netherlands

Donders Institute for Brain, Cognition and Behaviour

o Advisors: Prof. Christian Beckmann, Dr. Andre Marquand

Education

Doctor of Philosophy, Neuroscience & Psychiatry

Melbourne, Australia

Sept. 2018 - Oct. 2018

Monash University

March 2014 - June 2019

- Thesis: Mapping brain networks in health and mental disorder with structural and functional Magnetic Resonance Imaging
- o Advisors: Prof. Murat Yucel, Prof. Alex Fornito, Dr. Ben Fulcher

Bachelor of Science (with Honors), Psychology/Psychophysiology

Melbourne, Australia 2009 - 2013

Swinburne University of Technology

- o Thesis: Mapping language processes using Magnetoencephalography.
- o Advisor: Associate Prof. Conrad Perry
- o Honors: First Class. Dux

Funding

Career Transition Awards

Sept. 2021 - 2026

National Institute of Mental Health (NIMH)

K99/R00 Pathway to Independence Award

- Project: Developing prognostic neuroimaging biomarkers of the psychosis spectrum using network control theory
- o \$1,424,194 USD

Fellowships & Scholarships

Young Investigator Award

Jan. 2021 - Jan. 2023

Brain & Behavior Research Foundation

- Project: Hybrid neurodevelopmental normative models for psychosis
- \$70,000 USD

Monash University Postgraduade Publication Award

2018

Monash University

• \$6,300 AUD

Monash University Graduate Research Scholarship

2014 - 2018

Monash University
• \$20,000 AUD

Australian Postgraduate Award Research Scholarship

2014 - 2018

Australian Government

o \$91,000 AUD

Grants

Innovations Connections Grant

2016 - 2017

Department of Industry, Innovation and Science, Australia

- \$50,000 AUD
- Associate investigator

Travel Awards.....

Domestic Travel Fellowship Award

Society of Biological Psychiatry

2022

• \$2,000 USD

Abstract Merit Award 2021

Organization for Human Brain Mapping

o virtual, no monetary component

Abstract Merit Award 2020

Organization for Human Brain Mapping

• \$3,000 USD

Donders-Monash Erasmus Travel Award 2018

Donders Institute for Brain, Cognition and Behaviour | Monash University

• \$3,200 AUD

Future Leaders Travel Award 2015

Monash Institute of Cognitive and Clinical Neurosciences

• \$5,000 AUD

Select Publications

For a complete list of my publications and preprints see my Google Scholar

Postdoc papers.

- 1. **Parkes L**, Moore TM, Calkins ME, Cieslak M, Roalf DR, Wolf DH, Gur RC, Gur RE, Satterthwaite TD & Bassett DS (2021). Network controllability in transmodal cortex predicts positive psychosis spectrum symptoms. *Biological Psychiatry*.
- 2. **Parkes L**, Moore TM, Calkins ME, Cook PA, Cieslak M, Roalf DR, Wolf DH, Gur RC, Gur RE, Satterthwaite TD & Bassett DS (2021). Transdiagnostic dimensions of psychopathology explain individuals' unique deviations from normative neurodevelopment in brain structure. *Translational Psychiatry*.
- 3. **Parkes L**, Satterthwaite TD & Bassett DS (2020). Towards precise resting-state fMRI biomarkers in psychiatry: synthesizing developments in transdiagnostic research, dimensional models of psychopathology, and normative neurodevelopment. *Current Opinion in Neurobiology*.
- Invited opinion piece

PhD papers

- 4. **Parkes L**, Tiego J, Aquino K, Braganza L, Chamberlain SR, Fontenelle L, Harrison BJ, Lorenzetti V, Paton B, Razi A, Fornito A, & Yucel M (2019). Transdiagnostic variations in impulsivity and compulsivity in obsessive-compulsive disorder and gambling disorder correlate with effective connectivity in cortical-striatal-thalamic-cortical circuits. *NeuroImage*.
- 5. **Parkes L**, Fulcher B, Yucel M, & Fornito A (2018). An evaluation of the efficacy, reliability, and sensitivity of motion correction strategies for resting-state functional MRI. *NeuroImage*.
- The 4th most cited paper in NeuroImage since 2018
- 6. **Parkes L**, Fulcher B, Yucel M, & Fornito A (2017). Transcriptional signatures of connectomic subregions of the human striatum. *Genes, Brain and Behavior*.
- Amongst the top 20 downloaded from the journal in 2017
- 7. *Prochazkova L, *Parkes L, Dawson A, Youssef G, Ferreira GM, Lorenzetti V, Segrave RA, Fontenelle LF, & Yucel M (2017). Unpacking the role of self-reported compulsivity and impulsivity in obsessive-compulsive disorder. *CNS spectrums*.
- *These authors contributed equally

Undergraduate papers.....

8. **Parkes L**, Perry C, & Goodin P (2016). Examining the N400m in affectively negative sentences. A magnetoencephalography study. *Psychophysiology*.

Book chapters	
9. Segrave RA, Hendrikse J, & Parkes L, (2019). DBS, TMS and tDCS for obsessive	-
Transdiagnostic Approach to Obsessions, Compulsions and Related Phenomena. Cambridg	e University Press
Teaching Experience	
Teacher's Assistant	Philadelphia, PA
University of Pennsylvania, Department of Bioengineering	2020
 Class: Network Neuroscience Course evaluation score: 3.57/4 	
Guest Lecturer	Philadelphia, PA
University of Pennsylvania, Department of Bioengineering	2019
Class: Network Neuroscience	2013
Guest Lecturer	Melbourne, Australia
Monash University	2017 - 2018
Class: Neuroscience Methods	
Recitation Tutor	Melbourne, Australia
Swinburne University	2014 - 2015
Class: Undergraduate Psychology	
Recitation Tutor	Melbourne, Australia
Swinburne University	2013
Class: Undergraduate Physiology	
Research Employment	
Research Assisstant	Melbourne, Australia
Monash Biomedical Imaging	2018
 Analysis of positron emission tomography (PET) data 	
Research Engineer	Melbourne, Australia
Torus Games & Cogstate	2016 - 2017
• Developed gamified cognitive tests for neuroscience research	
Magnetoencephalography Technician	Melbourne, Australia
Swinburne UniverisityCollection, preprocessing, and analysis of Magnetoencephalography (MEG) data	2013
Open Science Contributions	
Toolkits Network Control	
https://github.com/BassettLab/control_package	+ i ytiloi
Predictive Clinical Neuroscience	? Pythor
https://github.com/amarquand/PCNtoolkit	
Reproducibility	
https://github.com/lindenmp/neurodev_cs_predictive	? Pythoi
• Code to reproduce results presented in <i>Parkes et al. (2021) Biological Psychiatry</i>	•
https://github.com/lindenmp/normative_neurodev_cs_t1	? Pythoi
• Code to reproduce results presented in <i>Parkes et al. (2021) Translational Psychiatry</i>	
https://github.com/lindenmp/rs-fMRI	/> Matlal
• Code to reproduce results presented in <i>Parkes et al. (2018) NeuroImage</i> and <i>Parkes et al.</i>	ıl. (2019) Neurolmage
Presentations	
Invited Lectures & Presentations	
Mount Sinai, New York City, NY	Mar. 2022
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Mar. 2022

Rutgers University, New Brunswick, NJ

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Australasian Cognitive Neuroscience Society, Executive Committee 2017	Australasian Cognitive Neuroscience Society, Early Career Researchers Committee 201		2017
	Australasian Cognitive Neuroscience Society, Executive Committee		2017

Students of Brain Research Treasurer	2016
Supervision & Mentorship	
Ashlea Segal	2018 - present
Graduate Student, Monash University	
Tayla Currie	2018
Undergraduate Honors Student, Monash University	2217
John Fallon Undergraduate Honors Student, Monash University	2017
Luisa Prochazkova International Visiting Scholar, Monash University	2016
Kristina Sabaroedin	2016
Undergraduate Honors Student, Monash University	
Lauren Den Ouden	2016
Undergraduate Honors Student, Monash University	
Stuart Oldham	2016
Undergraduate Honors Student, Monash University	
Danielle Amiet Undergraduate Honors Student, Monash University	2016
Outreach & Community Engagement	
Neuroimaging Best Practices Beyond Open Science Organization for Human Brain Mapping, Student and Postdoc Special Interest Group	2021
Moderator	
Link with Mentors	2021
Organization for Human Brain Mapping, Student and Postdoc Special Interest Group	
• Moderator	
International Mentoring Programme	2021
Organization for Human Brain Mapping, Student and Postdoc Special Interest Group	
 Mentor Network Control Theory for Neuroscientists, Education Workshop 	2020
Organization for Human Brain Mapping	2020
 Organizer, presenter 	
Link with Mentors	2020
Organization for Human Brain Mapping, Student and Postdoc Special Interest Group	
Moderator	2212
NeuroDay Methodiet Lodice' College Melhourne Australia	2018
Methodist Ladies' College, Melbourne, Australia	
 Organizer, presenter BMH Mentor Forum 	2018
Brain & Mental Health Research Hub, Monash University	2010
 Organizer, mentor 	
MBI Student Forum	2014 - 2015
Monash Biomedical Imaging, Monash University	

o Organizer, mentor, presenter