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** working on understanding the biological basis of **psychiatric disorders**. My research uses **magnetic resonance imaging** and draws on tools from **network science** and **data science** to better understand the brain-phenotype relationships that are relevant to, and predictive of, mental illness.

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

- o Thesis: Mapping brain networks in health and mental disorder with structural and functional Magnetic Resonance Imaging
- 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

Grants.....

o \$91,000 AUD

Innovations Connections Grant

2016 - 2017

Department of Industry, Innovation and Science, Australia

- \$50,000 AUD
- Associate investigator

Abstract Merit Award

Travel Awards.....

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

o \$3.200 AUD

Future Leaders Travel Award

2015

Monash Institute of Cognitive and Clinical Neurosciences

• \$5,000 AUD

Select Publications (9 of 31)

Citations = 794, h-index = 15, i10-index = 18

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 compulsive disorder. In *A Transdiagnostic Approach to Obsessions, Compulsions and Related Phenomena*. Cambridge 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 Class: Network Neuroscience **Guest Lecturer** Melbourne, Australia Monash University 2017 - 2018 Class: Neuroscience Methods **Recitation Tutor** Melbourne, Australia 2014 - 2015 Swinburne University 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 University 2013 Collection, preprocessing, and analysis of Magnetoencephalography (MEG) data **Open Science Contributions** Toolkits **?** Python **Network Control** https://github.com/BassettLab/control_package **Predictive Clinical Neuroscience** 🗬 Python https://github.com/amarquand/PCNtoolkit Reproducibility..... https://github.com/lindenmp/neurodev_cs_predictive **P**ython Code to reproduce results presented in Parkes et al. (2021) Biological Psychiatry Python https://github.com/lindenmp/normative_neurodev_cs_t1 o Code to reproduce results presented in Parkes et al. (2021) Translational Psychiatry </>
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Matlab https://github.com/lindenmp/rs-fMRI o Code to reproduce results presented in Parkes et al. (2018) NeuroImage and Parkes et al. (2019) NeuroImage **Presentations**

Review and comparison of retrospective motion correction strategies

2021

Quality Conversations webinar series by Dr. Pradeep Raamana

- Invited talk
- Available on YouTube

Network controllability in transmodal cortex predicts positive psychosis spectrum symptoms

2021

o Invited talk Average controllability better predicts cognition when compared to strength Organization for Human Brain Mapping Symposium Psychopathology explain individual's unique deviations from normative neurodevelopment Organization for Human Brain Mapping Dimensional psychiatry in corticostriatal circuits: lessons learnt from resting-state fMRI data University of Pennsylvania Invited talk Invited talk Confounds in rs-fMRI processing Swinburne University, Melbourne, Australia Invited talk Transcriptional signatures of connectomic subregions of the human striatum Students of Brain Research, Melbourne, Australia Invited talk Transcriptional signatures of connectomic subregions of the human striatum Students of Brain Research, Melbourne, Australia Examining the N400m in affectively negative sentences. A magnetoencephalography study Australasian Cognitive Neuroscience Conference Posters (first-author) Network controllability in transmodal cortex predicts positive psychosis spectrum symptoms Organization for Human Brain Mapping Network controllability in transmodal cortex predicts positive psychosis spectrum symptoms Organization for Human Brain Mapping Impulsivity and compulsivity correlate with effective connectivity in corticostriatal circuits Organization for Human Brain Mapping Impulsivity and compulsivity correlate with effective connectivity in corticostriatal circuits Australasian Cognitive Neuroscience Conference Evaluating the efficacy and sensitivity of motion correction strategies for rs-fMRI Organization for Human Brain Mapping Efficacy, reliability, and sensitivity of motion correction strategies for resting-state functional MRI IEEE International Symposium on Biomedical Imaging	 3-minute summary available on YouTube Network Neuroscience 	2021
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Treasurer

Organization for Human Brain Mapping, Student and Postdoc Special Interest Group Treasurer	2019 - 2021
Australasian Cognitive Neuroscience Society, Early Career Researchers Committee Committee Member	2017
Australasian Cognitive Neuroscience Society, Executive Committee ECR Representative	2017
Students of Brain Research Treasurer	2016
Supervision & Mentorship	
Ashlea Segal Graduate Student, Monash University	2018 - present
Tayla Currie	2018
Undergraduate Honors Student, Monash University	2010
John Fallon	2017
Undergraduate Honors Student, Monash University	
Luisa Prochazkova	2016
International Visiting Scholar, Monash University	
Kristina Sabaroedin	2016
Undergraduate Honors Student, Monash University	
Lauren Den Ouden	2016
Undergraduate Honors Student, Monash University	2016
Stuart Oldham Undergraduate Honors Student, Monash University	2016
Danielle Amiet	2016
Undergraduate Honors Student, Monash University	2010
Outreach & Community Engagement.	
Neuroimaging Best Practices Beyond Open Science	2021
Organization for Human Brain Mapping, Student and Postdoc Special Interest Group	2021
Moderator	2021
Link with Mentors Organization for Human Brain Mapping, Student and Postdoc Special Interest Group	2021
Moderator	
International Mentoring Programme	2021
Organization for Human Brain Mapping, Student and Postdoc Special Interest Group	2021
Mentor	
Network Control Theory for Neuroscientists, Education Workshop	2020
Organization for Human Brain Mapping	
 Organizer, presenter 	
Link with Mentors	2020
Organization for Human Brain Mapping, Student and Postdoc Special Interest Group	
Moderator	2010
NeuroDay Methodist Ladies' College, Melbourne, Australia	2018
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	
Organizer, mentor, presenter	