

Dr Jo Cutler

W: www.jocutler.com E: jo.l.cutler@gmail.com

Topics: altruism, decision-making, learning, cognitive biases, charitable giving, ageing.

Methods: fMRI, psychophysiology (ECG, GSR & pulse oximetry), behavioural (lab & online), computational modelling, lesion studies.

Software & programming: R, Matlab (SPM, PsPM, Psychtoolbox), FSL, Unix.

EMPLOYMENT

Postdoctoral Research Fellow

July 2020 to present

School of Psychology, University of Birmingham, UK

Postdoctoral Research Associate

January to June 2020

Experimental Psychology, University of Oxford, UK

Social Decision Neuroscience Lab

Principle Investigator: Dr Patricia Lockwood

EDUCATION

PhD Psychology

2016 to 2020

School of Psychology, University of Sussex, UK

- *Thesis:* When and why do we value the lives of others? Insights from brain, body and behaviour
- *Supervisor:* Dr Daniel Campbell-Meiklejohn
- Involved in all research ideas, co-designed paradigms and created stimuli
- Wrote scripts to run studies and analyse data
- Tested participants and coordinated other researchers to run studies

MSc Cognitive Neuroscience, Distinction

2015 to 2016

School of Psychology, University of Sussex, UK

- *Dissertation:* Comparing altruistic decisions with those which also benefit the self: A functional imaging meta-analysis of prosocial decisions

BSc Psychology (International), 1st Class Hons

2011 to 2015

School of Psychology, University of Leeds, UK and University of Sydney, Australia

- *Dissertation:* Applying the theory of planned behaviour to charitable giving
- Research assistant on 4 projects leading to co-authorship on 2 (unpublished) articles and a conference presentation
- Grant to collect data in Australia

PUBLICATIONS

- Rhoads, Cutler & Marsh (preprint) A feature-based network analysis and fMRI meta-analysis of the task structure underlying prosocial decision-making reveal three distinct clusters: cooperation, equity, and altruism. *bioRxiv*. doi.org/10.1101/2020.12.09.415034
- Cutler, Wittmann, Abdurahman, Hargitai, Drew, Husain & Lockwood (preprint) Ageing disrupts reinforcement learning whilst learning to help others is preserved. *bioRxiv*. doi.org/10.1101/2020.12.02.407718
- Van Bavel, ... Cutler, ... & Boggio (preprint) National identity predicts public health support during a global pandemic. *Research Square*. doi.org/10.21203/rs.3.rs-67323/v1
- Livermore, Holmes, Cutler, Levstek, Moga, Brittain & Campbell-Meiklejohn (2021) Selective effects of serotonin on choices to gather more information. *Journal of Psychopharmacology*.
- Tierney, ... Culture and Work Morality Forecasting Collaboration, & Uhlmann (2021). A creative destruction approach to replication: Implicit work and sex morality across cultures. *Journal of Experimental Social Psychology*, 93, 104060. (Member of Forecasting Collaboration). doi.org/10.1016/j.jesp.2020.104060
- Nitschke, Forbes, Cutler, Apps, Lockwood & Lamm (2020) Resilience During Uncertainty? Greater Social Connectedness During COVID-19 Lockdown is Associated with Reduced Distress and Fatigue. *British Journal of Health Psychology*. doi.org/10.1111/bjhp.12485
- Cutler & Campbell-Meiklejohn (2019) A comparative fMRI meta-analysis of altruistic and strategic decisions to give. *Neuroimage*, 184. pp.227-241. doi.org/10.1016/j.neuroimage.2018.09.009
- Cutler, Radua & Campbell-Meiklejohn (preprint) Adjusting for variable brain coverage in voxel-based fMRI meta-analysis. *bioRxiv*. doi.org/10.1101/457028.

GRANTS, SCHOLARSHIPS & ACADEMIC AWARDS

Co-applicant, University of Birmingham School of Psychology Pump-Priming, £672	2021
Lead applicant, University of Birmingham School of Psychology Pump-Priming, £500	2021
Finalist, Foundation Lombard Odier Prize for Academic Excellence in Philanthropy	2020
Contributed to Economic, Social, Cultural, & Environmental Impacts of COVID-19 Grant, £15,000	2020
International Association for Research in Economic Psychology Travel Grant, €200	2019
Sussex Fund Doctoral Overseas Conference Grant, £980	2019
PI - ESRC SeNSS Industry Engagement Fund, £4,980	2018
Co-wrote unsuccessful but shortlisted ESRC Collaborative Studentship Grant	2018
Sussex Three Minute Thesis winner, £500 research grant prize	2018
Sussex Neuroscience Travel Grant, £1,300	2018
Clinical Imaging Science Centre PhD scanning award, 36 hours fMRI funding	2017
Sussex Psychology Impact Fund, £340	2017
Kindness UK & Sussex Doctoral School Conference Award, £1,000	2017
Sussex Cumberland Lodge Conference Grant, £450	2017
Economic and Social Research Council (ESRC) 1+3 MSc & PhD Studentship	2015
University of Leeds BSc Psychology 2015 award	2015
Santander Study Abroad Research Scheme, £400	2013

INVITED TALKS

Academic

- *London Judgement and Decision Making Seminar*. When and why do we value outcomes for others? Insights from brain, body and behaviour, June 2020.
- *University College London, Affective Brain Lab Meeting*. When and why are we altruistic? Insights from brain, body and behaviour, August 2019.
- *Dartmouth College, Dartmouth Social Neuroscience Lab Meeting*. When and why are we altruistic? Insights from brain, body and behaviour, August 2019.
- *Brown University, FeldmanHall Lab Meeting*. When and why are we altruistic? Insights from brain, body and behaviour, July 2019.
- *California Institute of Technology, Social & Decision Neuroscience Lab Meeting*. Why do we donate money to strangers? Insights from brain, body and behaviour, February 2019.
- *The University of Cardiff, Social Psychology Lab Meeting*. Using neuroscience to understand prosocial decisions, June 2018.
- *The University of Sussex, Kindness Symposium*. The neuroscience of kindness, December 2017.

Engagement

- *Kindfest: The science of kindness, online*. Panel member, November 2020.
- *New Note Orchestra: Kind Rebellion, Brighton*. Panel member, November 2019.
- *UNESCO Mahatma Gandhi Institute of Education for Peace and Sustainable Development World Youth Conference on Kindness, Delhi*. Kindness Lab: Why are we kind and how can we inspire others to be kind? August 2019.
- *Institute of Fundraising Consultants Special Interest Group, London*. Getting inside your supporter's head, September 2018.
- *UNICEF, Macmillan Cancer Support and WaterAid, London*. The charitable brain: Biological and neural foundations of giving, Spring 2018.
- *Institute of Fundraising Insight conference, London*. The neuroscience of giving: who, what, how and why? November 2017.

Internal and educational

- *Birmingham Centre for Human Brain Health seminar series*. Age is associated with increased but more biased prosocial behaviour across the globe. March 2021.
- *Motivation & Social Neuroscience and Social Decision Neuroscience Lab meeting*. Are older adults more prosocial? October 2020.
- *Birmingham Centre for Human Brain Health seminar series*. Ageing disrupts reinforcement learning whilst learning to help others is preserved, July 2020.
- *Oxford Experimental Psychology Away Day Early Career Researcher talks*. Ageing-related changes in prosocial learning, April 2020.
- *Sussex Early Career Researchers in Neuroimaging Day*. Using physiological measures to understand biases in charitable giving, May 2018.
- *Sussex Cognitive Brown Bag*. Cognitive biases in the valuation of other people's lives, May 2018.
- *Sussex CISC Neuroimaging Methods meeting*. Meta-analysis of neuroimaging data: Using AES:SDM, April 2018.
- *Sussex CISC Neuroimaging Methods meeting*. Physiological recording with Biopac, April 2018.
- *The University of Sussex Impact Day*. Creating impact early in your academic career, June 2017.
- *Sussex Behavioural and Clinical Neuroscience meeting*. The neural basis of prosocial decisions: an fMRI meta-analysis, April 2017.
- *Sussex CISC Neuroimaging Methods meeting*. Running an fMRI meta-analysis using AES:SDM, March 2017.

CONFERENCE PRESENTATIONS

- Cutler, Wittmann, Abdurahman, Hargitai, Drew, Husain & Lockwood (2021) Ageing disrupts reinforcement learning whilst learning to help others is preserved. Poster (recorded short talk).
Social Affective Neuroscience Society (online)
Society for Social Neuroscience (online)
- Cutler (2020) Aligning tax incentives with motivations for philanthropy: Insights from brain and behaviour. Oral presentation. *Geneva Centre for Philanthropy International Conference on Taxation and Philanthropy* (online).
- Cutler, Wittmann, Abdurahman, Hargitai, Drew, Husain & Lockwood (2020) Ageing-related changes in prosocial reinforcement learning and links to psychopathic traits. Poster. *Organization for Computational Neuroscience* (online).
- Cutler, Wittmann, Abdurahman, Hargitai, Drew, Husain & Lockwood (2020) Ageing-related changes in prosocial reinforcement learning and links to psychopathic traits. Oral presentation.
Neuromatch (online).
- Cutler & Campbell-Meiklejohn (2019) A comparative fMRI meta-analysis of altruistic and strategic decisions to give. Poster. *Society for Social and Affective Neuroscience*.
- Cutler, Miles-Wilson & Campbell-Meiklejohn (2019) Physiological responses to lives at risk depend on whether they are at home or abroad. Poster. *Society for Social and Affective Neuroscience*.
- Cutler, Miles-Wilson & Campbell-Meiklejohn (2018) Heart rate changes in response to people living or dying show evidence of cognitive biases. Poster. *Society for Neuroscience and Society for Social Neuroscience*.
- Cutler & Campbell-Meiklejohn (2018) What can neuroscience reveal about #charity giving? Twitter presentation. *Brain Twitter Conference* (online).
- Cutler & Campbell-Meiklejohn (2017) Differentiating altruistic and strategic decision making in striatum and vmPFC. Poster. *Organisation for Human Brain Mapping Annual Meeting*.
- Cutler & Campbell-Meiklejohn (2017) The neural basis of prosocial decision making: An fMRI meta-analysis. Poster.
British Psychological Society Annual Conference
British Chapter of the Institute of Magnetic Resonance in Medicine Postgraduate Meeting.

IMPACT, MEDIA & ENGAGEMENT

- Appearance on Australian Broadcasting Corporation (ABC) NewsRadio, November 2020.
- Appearance on BBC Radio 5 Live, May 2020.
- Consultant, European company developing a fundraising platform.
- Research Fellow, Better Good (American company which created the Momentum fundraising app) following research funded by ESRC SeNSS Industry Engagement Fund grant.
- Advisor, UNESCO Mahatma Gandhi Institute of Education for Peace and Sustainable Development Kindness Matters campaign.
- The psychology of opting in. Guest blog for the Institute of Fundraising, August 2018.
- Three articles for The Conversation (February 2018, March 2017, March 2016) 100,000+ total views.
- Appearance on BBC Sussex radio and TV, January 2018.
- Why do we give at Christmas? Article for Impakter.com, December 2017.

TEACHING & SUPERVISION

Guest Lecturer

- *MSc Contemporary Applications in Consumer Psychology: Neuromarketing and Beyond* – guest lecture to 50 students, “Using physiology to understand consumer behaviour”. April 2019

Associate / Doctoral Tutor

- *BSc Biological Psychology* – led seminars of up to 20 students, conducted support sessions, marked exams. 2018
- *MSc Statistics* – tutored workshops (approximately 80 students), mentored students learning to use R through novel teaching methods. 2017
- *BSc Social Psychology* - ran seminars (up to 20 students), supported workshops (80 students), marked research reports. 2017
- Completed Starting to Teach training with distinction. 2017
- Associate Fellow of the Higher Education Academy.

Project Student Co-supervisor

- Co-designed studies, wrote scripts to run experiments, trained students in completing ethics applications, data collection and analysis. 2015 to 2021
- 2020 – 2021: One MSc student.
- 2019 – 2020: Two MRes students and a Research Assistant.
- 2018 – 2019: Two BSc and two MSc students.
- 2017 – 2018: One MSc student and a summer project student.
- 2016 – 2017: Two BSc students.
- 2015 – 2016: One BSc student.

ADMINISTRATION & SERVICE

- The Social Decision Lab mailing list* – creator and organiser. 2017 to 2020
- Sussex Postgraduate Open Days* – presenter as a current postgraduate student. 2016 to 2019
- Sussex Psychology Impact Fund* – application reviewer. October 2018
- Early Career Researchers in Neuroimaging Day* – organising committee secretary. 2018
- ESRC Festival of Social Science event Meet the Neuroscientists Researching Charity Giving* – event organiser: designed, organised, funded and ran event. November 2017
- Psychology Impact Group for Early Career Researchers* – founder and organiser. 2016 to 2017

PEER REVIEW

Neuroimage
Social Cognitive and Affective Neuroscience
Nature Scientific Reports
European Journal of Marketing
Nature Human Behaviour *
Neuroscience and Biobehavioral Reviews
PNAS *
Psychological Science *
Developmental Cognitive Neuroscience *

Note: * indicates review in partnership with Principle Investigator