

Patricia L. Lockwood, PhD.

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Education

- 2011-2015 **University College London, 4-year PhD in Biomedical Sciences**
- Rotation year:**
Project 1: *Causal mechanisms of perceptual pain processing.*
Supervisors: *Prof. Patrick Haggard & Dr Giandomenico Iannetti*
Project 2: *Serotonin and reward processing.*
Supervisors: *Dr. Jonathan Roiser & Prof. Ray Dolan*
Project 3: *Neural response to others' pain in children with conduct problems.*
Supervisors: *Prof. Essi Viding & Dr. Eamon McCrory*
Thesis topic: *Behavioural and neurobiological foundations of vicarious processing*
Supervisors: *Prof. Essi Viding & Dr. Jonathan Roiser*
- 2007-2010 **University of Bristol**
BSc Psychology (77, highest 1st class in cohort) and Philosophy (72, second highest 1st class in cohort) - 1st class honours

Employment History

- 2016-Present **Junior Research Fellowship, Somerville College, University of Oxford**
- 2016-Present **Lecturer in Psychology, Corpus Christi College, University of Oxford**
- 2015-Present **Postdoctoral Research Associate, University of Oxford**
Project: *Neural basis of social cognition in health and disease*
Supervisors: *Prof. Masud Husain, Dr. Molly Crockett & Prof. Glyn Humphreys*
- 2015-Present **Visiting Lecturer, Royal Holloway, University of London**
- 2010-2012 **Research Assistant, University College London**
Project: *Neurocognitive correlates of antisocial behaviour in children with conduct problems and callous-unemotional traits*
Supervisors: *Prof. Essi Viding & Prof. Eamon McCrory*
- 2009-2010 **Research Assistant, University of Bath**
Project: *Effectiveness of school-based CBT programmes in the prevention of symptoms of depression in high-risk adolescents*
Supervisors: *Prof. Paul Stallard, Dr. Abigail Millings & Dr. Rhiannon Buck*
- 2010-2010 **Research Assistant, University of Bristol**
Project: *Social anxiety and perspective taking*
Supervisor: *Dr. Christine Mohr*
- 2009-2009 **Research Assistant, University of Bristol**
Project: *Social cognition and infant development*
Supervisors: *Prof. Bruce Hood & Dr. Nathalia Gjersoe*

Awards/Prizes/Grants

- 2016 **Brain Travel Award** – Motivation and Cognitive Control Workshop
- 2015 **Guarantors of Brain Travel Grant** – Human Brain Mapping
- 2014 **PsyPAG Bursary** – British Psychological Society
- 2014 **Society For Neuroscience Graduate Award** – Society for Neuroscience
- 2014 **Grindley Travel Grant** – Experimental Psychology Society
- 2014 **BSPID Poster Prize** – City University, London

2013	European Workshop on Social Neuroscience Conference Grant – European Social Cognition Network and European Science Foundation.
2013	Guarantors of Brain Travel Grant – Society for Scientific study of Psychopathy
2013	UCL Graduate School Poster competition Prize – University College London
2011	Open competition – Medical Research Council DTA 4-year PhD Studentship – University College London
2010	British Psychological Society Award for Undergraduate Psychology – University of Bristol
2010	Henri Tajfel Prize for Undergraduate Psychology Project – University of Bristol

Publications

Publication metrics: H-index = 9 (Google Scholar), Citations = 422

Lockwood, P. L., Apps, M. A. J. A, Valton, V., Viding E. J. P. Roiser (2016) Neurocomputational mechanisms of prosocial learning and links to empathy. *Proceedings of the National Academy of Sciences*

Impact factor: 9.42. Altmetric: 385, top 1%

Lockwood, P. L. The anatomy of empathy: typical variability and disorders of social cognition (2016) *Behavioural Brain Research*

Impact factor: 3.03. Altmetric: 25, top 5%

Lockwood, P. L. & Viding, E. (2016). Conduct disorder and perceiving harm to others. *Journal of Child Psychology and Psychiatry*, 57(4), 520-522.

Impact factor: 5.44. Altmetric: 6, top 25%

Faulkner, P. Mancinelli, F. **Lockwood, P. L.** Matarin, M. Wood, N. W. Dayan, P.. & Roiser, J. P. (2016) .Peripheral serotonin 1B receptor transcription predicts the effect of acute tryptophan depletion on risky decision-making. *International Journal of Neuropsychopharmacology*

Impact factor: 4.04.

Sebastian, C. DeBrito, S. McCrory, E. Hyde, Z. **Lockwood, P. L.** Cecil, C., Viding, E. (2016). Grey matter volumes in children with conduct problems and varying levels of callous-unemotional traits. *Journal of Abnormal Psychology*, 1-11.

Impact factor: 3.01. Altmetric: 4, top 25%

Lockwood, P. L. Apps, M. A. J., Roiser, J. P. Viding, E. (2015) Encoding of vicarious reward prediction in anterior cingulate cortex and relationship with trait empathy. *The Journal of Neuroscience*, 35(40):13720-13727.

Impact factor: 6.34. Altmetric: 141, top 1%

Lockwood, P. L. (2015). Psychopathy: An Overview. *The Quarterly*, 94, 13-16.

Lockwood, P. L. Seara-Cardoso, A. & Viding, E. (2014). Emotion regulation moderates the association between empathy and prosocial behaviour. *PLoS One*. 9(5): e96555.

Impact factor: 3.53. Altmetric: 13, top 5%

Sebastian, C. McCrory, E. Dadds, M. Cecil. C. **Lockwood, P. L.** Hyde, Z. DeBrito, S. Viding, E. (2014). Neural responses to fearful eyes in children with conduct problems and varying levels of callous-unemotional traits. *Psychological Medicine*, 44(1): 99-109.

Impact factor: 5.43. Altmetric: 2.45, top 40%

Lockwood, P. L. Sebastian, C. McCrory, E., Hyde, Z. Gu, X. DeBrito, S. Viding, E. (2013). Association of callous traits with reduced neural responses to others' pain in children with conduct problems. *Current Biology*, 23 (10) 901-905.

Impact factor: 9.57. Altmetric: 73.55, top 1%

Lockwood, P. L. Iannetti, GD. Haggard, P. (2013). Transcranial Magnetic Stimulation over human secondary somatosensory cortex modifies perception of pain intensity. *Cortex*, 49, 2201-2209.

Impact factor: 6.04 Altmetric: 11.50, top 7%

Lockwood, P. L. Bird, G. Bridge, M. & Viding E. (2013). Dissecting empathy: high levels of psychopathic and autistic traits are characterized by difficulties in different social information processing domains. *Frontiers in Human Neuroscience*, 7:760.

Impact factor: 2.90. Altmetric: 37.65, top 2%

Lockwood, P. L. Millings, A. Hepper, E. & Rowe, A. (2013). If I cry do you care? Individual differences in empathy moderate the facilitation of caregiving words after exposure to crying faces, *Journal of Individual Differences*, 34 (1) 41-47.

Impact factor: 0.83.

Apps, M. **Lockwood, P. L.** Balsters, J. (2013). The role of the midcingulate cortex in monitoring others' decisions. *Frontiers in Decision Neuroscience*, 7:725.

Impact factor: 2.90 Altmetric: 36, top 3%

Sebastian, C. McCrory, E. Cecil, C. **Lockwood, P. L.** DeBrito, S. Fontaine, N. Viding, E. (2012). Neural responses to affective and cognitive Theory of Mind in children with conduct problems and varying levels of callous-unemotional traits, *Archives of General Psychiatry* 69(8) 814-822.

Impact factor: 12.26.

Viding, E. Sebastian, C. Dadds, M. **Lockwood, P. L.** Cecil. C. DeBrito, S. McCrory E. (2012). Amygdala response to pre-attentive masked fear is associated with callous-unemotional traits in children with conduct problems, *American Journal of Psychiatry*, 169 (10) 1109-1116.

Impact factor: 14.72.

Selected Talks and Posters

Lockwood, P. L. (2016). Neurocomputational mechanisms of prosocial learning, Social and Affective Neuroscience Society, New York, USA.

Lockwood, P. L. (2015). Social associative learning and individual differences, Corpus Christi College, University of Oxford, UK.

Lockwood, P. L. (2015). Empathy and psychopathic traits in children and adults, Institute of Psychiatry, Psychology and Neuroscience, Kings College London, UK.

Lockwood, P. L. Apps, M. Roiser, J. & Viding E. (2015). Associations between psychopathic traits and prosocial learning. Society for the Scientific Study of Psychopathy, Chicago, USA.

Lockwood, P. L. Apps, M. Roiser, J. & Viding E. (2015). Encoding of vicarious reward prediction in anterior cingulate cortex is associated with trait empathy. Human Brain Mapping, Hawaii, USA.

Lockwood, P. L. Apps, M. Valton, V. & Viding E. Roiser, J. (2014). Prosocial Learning – Vicarious reinforcement when choosing for others. Society for Neuroscience, Washington DC, USA.

Lockwood, P. L. Apps, M. Valton, V. Roiser, J. & Viding E. (2014). Prosocial Learning – Vicarious reinforcement when choosing for others. FENS Social Brain Conference, Copenhagen, Denmark.

Lockwood, P. L. Bird, G. Bridge, M. & Viding E. (2013). Dissecting empathy: high psychopathic and autistic traits are characterized by difficulties in different social information processing domains. British Society for Personality and Individual Differences Conference. London, UK.

Lockwood, P. L. Sebastian, C. McCrory, E., Hyde, Z., Gu, X. DeBrito, S. Viding, E. (2013). Association of callous traits with reduced neural responses to others' pain in children with conduct problems. European Workshop for Social Neuroscience, Belgium.

Lockwood, P. L. Sebastian, C. McCrory, E. Hyde, Z. Gu, X. DeBrito, S. Viding, E. (2013). Association of callous traits with reduced neural responses to others' pain in children with conduct problems. Society for the Scientific Study of Psychopathy, Washington D.C, USA.

Lockwood, P. L. Iannetti., GD. Haggard. P (2012). Transcranial Magnetic Stimulation over human secondary somatosensory cortex modifies pain perception. University College London Neuroscience Symposium, University College London. UK.

Supervision/teaching

Supervision of MSc project, University college London (2014-2015)

Supervision of 3rd year BSc projects, University College London (2012-2013 and 2014-2015)
Lab demonstrating and seminar leading, University College London (2013-2014)
MSc Experimental Design seminars (2015)
GCSE science tutoring (2012-2015)
Invited lecture 'Empathy and disorders of social cognition' Social Neuroscience MSc, City University
Tutorials - Psychology Prelims, Corpus Christi College, University of Oxford (2016-Present)

Ad Hoc reviewer

Neuroimage, Brain, Social Cognitive and Affective Neuroscience, JAMA Psychiatry, Biological Psychiatry, Psychiatry Research, Autism Research, Neuropsychologia, Journal of Autism and Developmental Disorders, Personality and Individual Differences, Frontiers in Human Neuroscience, Frontiers in Psychology, Cognition, Cognitive Neuropsychiatry.

Public Engagement

Invited live twitter chat and video for the Royal Institution "Empathy and Social Behaviour" (2015).

Invited interview for BBC Radio 4 and BBC World Service programme The Forum "Why are we generous?" (2016).

Invited live tweeter for Anna Freud Centre (2014). Live tweeting at the Parenting and Neuroscience Conference for @AFCevents

Manuscript '**Neurocomputational mechanisms of prosocial learning and links to empathy**' (2016) **Reported in The Guardian, Huffington Post, New Scientist, Daily Mail, The Sun, Irish Examiner, The Express, Fox News, Russia Today, Belfast Telegraph, Top Santé (France), Correio (Brazil), Frankfurter Allgemeine (Germany), Television interviews in BBC South today, Channel 7, Radio interviews for BBC local news, BBC South, Podcasts for The Naked Scientists, Wild on Science**

Manuscript '**Encoding of vicarious reward prediction in anterior cingulate cortex and relationship with trait empathy**' (2015) **Reported in Science Daily, Neuroscience News, UCL news, NDTV (Indian new channel), Invdes (Spanish news channel), Health Canal, Deric Bownds Mind Blog, Financial Express and Science news line.**

Manuscript '**Association of callous traits with reduced neural responses to others' pain in children with conduct problems**' (2013) **Reported in NBC news, Time magazine, Huffington Post, Nature news, Yahoo news, UCL news, Daily Mail, The Examiner, USA today, Science Daily, Medical Express, MSN news, Esience news, India Education diary, Daily record and Science Codex.**

Royal Society Summer Science Exhibition (2012). Laughter science stand with Prof. Sophie Scott (UCL).