

ACADEMIC CURRICULUM VITAE

PERSONAL DETAILS

Dr Ilvana Dzafic

Melbourne School of Psychological Science

Medicine, Dentistry & Health Sciences

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EDUCATIONAL QUALIFICATIONS

Ph.D. in Cognitive Neuroscience

Queensland Brain Institute, University of Queensland, St Lucia, 2017.

Project: The neuroimaging and genetics of emotion perception in schizophrenia.

Bachelor of Psychological Science with Honours

University of Queensland, St Lucia, 2010.

Project: Advanced theory of mind: are the eyes the windows to the soul? Exploring mind reading and its relationship with empathy and friendship quality.

EMPLOYMENT HISTORY

Postdoctoral Research Fellow

mid 2019- present

Cognitive Neuroscience and Computational Psychiatry Lab

Melbourne School of Psychological Sciences, The University of Melbourne

Projects:

- Structural and functional brain networks in psychosis and psychosis prodrome.
- Randomized controlled trial of Cogsmart and CIRCuiTS.

Postdoctoral Research Fellow

2017- mid 2019

Computational Cognitive Neuroscience Lab

Queensland Brain Institute, University of Queensland

Projects:

- Brain pathways of salient information processing.
- Brain pathways of salient information processing in schizophrenia and psychosis.

Visiting Academic

2016

Institute of Psychiatry, Psychology and Neuroscience, King's College London

Project:

- Cognitive Bias Modification for paranoia.

Neuroimaging Research Assistant

2011- 2016

Centre for Advanced Imaging, University of Queensland

Projects:

- Accelerated long-term forgetting in epilepsy.
- Environmental sound norming.
- Imaging of memory in epilepsy

Asia-Pacific Centre for Neuromodulation, University of Queensland

Project:

- Functional and structural imaging of non-motor disturbance in Parkinson's disease.

Group Therapy Assistant

2009- 2010

Pathways Health and Research Centre

- Extensive training in Cognitive Behavioural Therapy.

Clinical Research Assistant

2009

Pathways Health and Research Centre

- Administration of the Anxiety Disorder Interview Schedule (ADIS).

RESEARCH PUBLICATIONS

H-index: 6, Citations: 127 (*Google Scholar*)

Pre-print:

Dzafic, I., Randeniya, R. and Garrido, M. I. (2017). Reduced top- down connectivity as an underlying mechanism for psychotic experiences in healthy people. *bioRxiv* 296988; doi: <https://doi.org/10.1101/296988>.

Taylor, J. A., Larsen, K. M., **Dzafic, I.** and Garrido, M. I. (2018). Predicting Individual Psychotic Experiences on a Continuum Using Machine Learning. *bioRxiv* 380162; doi: <https://doi.org/10.1101/380162>.

Larsen, K. M., **Dzafic, I.**, Darke, H., Pertile, H., Carter O. L., Sundram S. and Garrido, M. I. (2019). Aberrant connectivity in auditory precision encoding in schizophrenia spectrum disorder and across the continuum of psychotic-like experiences. *bioRxiv* 792473; doi: <http://dx.doi.org/10.1101/792473>.

Published:

Dzafic, I., Oestreich, L., Martin, A. K., Mowry, B. and Burianová, H. (2019). Stria terminalis, amygdala, and temporoparietal junction networks facilitate efficient emotion processing under expectations. *Human Brain Mapping*. doi: [10.1002/hbm.24779](https://doi.org/10.1002/hbm.24779).

Larsen, K. M., **Dzafic, I.**, Siebner, H., and Garrido, M. I. (2018). Alteration of functional brain architecture in 22q11.2 deletion syndrome - insights into susceptibility for psychosis. *NeuroImage*. doi: [10.1016/j.neuroimage.2018.09.001](https://doi.org/10.1016/j.neuroimage.2018.09.001).

Dzafic, I., Burianová, H., Martin, A. K., and Mowry, B. (2018). Neural correlates of dynamic emotion perception in schizophrenia and the influence of prior expectations. *Schizophrenia Research*. doi: [10.1016/j.schres.2018.06.015](https://doi.org/10.1016/j.schres.2018.06.015).

Dzafic, I., Burianová, H., Periyasamy, S. and Mowry, B. (2018). Association between schizophrenia polygenic risk and neural correlates of emotion perception. *Psychiatry Research: Neuroimaging*, 276 33-40. doi: 10.1016/j.psychres.2018.04.005.

Yiend, J., Trotta, A., Meek, C., **Dzafic, I.**, Baldu, N., Crane, B., Kabi, T., Stahl, D., Heslin, M., Shergill, S., McGuire, P. and Peters, E. (2017). Cognitive Bias Modification for paranoia (CBM-pa): study protocol for a randomised controlled trial. *Trials*, 18 1. doi:10.1186/s13063-017-2037-x.

Martin, A. K., **Dzafic, I.**, Ramdave, S. and Meinzer, M. (2017). Causal evidence for task-specific involvement of the dorsomedial prefrontal cortex in human social cognition. *Social Cognitive and Affective Neuroscience*. doi:10.1093/scan/nsw063.

Martin, A. K., **Dzafic, I.**, Robinson, G., Reutens, D. and Mowry, B. (2016). Mentalizing in schizophrenia: A multivariate functional MRI study. *Neuropsychologia*, 93 158-166. doi:10.1016/j.neuropsychologia. 2016.10.013.

Dzafic, I., Martin, A. K., Hocking, J., Mowry, B. and Burianová, H. (2016). Dynamic emotion perception and prior expectancy. *Neuropsychologia*, 86 131-140. doi:10.1016/j.neuropsychologia. 2016.04.025

Martin, A. K., Robinson, G., **Dzafic, I.**, Reutens, D. and Mowry, B. (2014). Theory of mind and the social brain: implications for understanding the genetic basis of schizophrenia. *Genes, Brain and Behavior*, 13 1: 104-117. doi:10.1111/gbb.12066.

Hocking, J., **Dzafic, I.**, Kazovsky, M. and Copland, D. (2013). NESSTI: Norms for Environmental Sound Stimuli. *PLoS ONE*, 8 9: e73382.1- e73382.12. doi:10.1371/journal.pone.0073382.

Hocking, J., Thomas, H., **Dzafic, I.**, Williams, R., Reutens, D. and Spooner, D. (2013). Disentangling the cognitive components supporting Austin Maze performance in left versus right temporal lobe epilepsy. *Epilepsy and Behavior*, 29 3: 485-491. doi:10.1016/j.yebeh.2013.08.020.

INVITED TALKS AND PRESENTATIONS

Biological Psychiatry Australia 9th Annual Scientific Meeting. Oral Presentation.

7th European Conference on Schizophrenia Research. Oral Presentation.

2019 Congress of the Schizophrenia International Research Society. Oral Presentation.

Australasian Neuroscience Society 2018. Oral Presentation.

Australasian Cognitive Neuroscience Society Conference 2018. Oral Presentation.

Organization for Human Brain Mapping 2018. Poster Presentation.

ARC Centre of Excellence for Integrative Brain Function 2017. Invited speaker.

Australasian Cognitive Neuroscience Society Conference 2017. Oral Presentation.

Science Meeting, ARC Centre of Excellence for Integrative Brain Function 2017. Oral Presentation.

2nd International Brain Stimulation Conference, Barcelona, Spain 2017. Poster Presentation.

Systems and Computational Neuroscience Down Under (SCiNDU) Conference 2017. Poster Presentation.

Organization for Human Brain Mapping 2016. Poster Presentation.

Institute of Cognitive Neuroscience, University College London 2016. Invited speaker.

Wellcome Trust Centre for Neuroimaging, University College London 2016. Invited speaker.

Cognition, Schizophrenia and Imaging, Institute of Psychiatry, King's College 2016. Invited speaker.

Schizophrenia International Research Society Conference 2016. Poster Presentation.

Society for Neuroscience 2015. Oral Presentation.

Centre for Advanced Imaging Seminar Series 2015. Invited speaker.

Society for Mental Health Research 2015. Oral Presentation.

Ipswich Hospital Research Day 2013. Poster Presentation.

EXPERTISE

Techniques

- Functional Magnetic Resonance Imaging
- Diffusion-weighted Magnetic Resonance Imaging
- Electroencephalography

Software packages and platforms

- MATLAB
- Neuroimaging analyses: Statistical Parametric Mapping (SPM), Partial Least Squares (PLS), FMRIB Software Library (FSL), MRtrix3
- Programming experiments: PsychToolbox, Cogent, E-Prime
- Statistical Package for the Social Sciences (SPSS)
- NeuroMiner (machine learning package)

SUPERVISION

Masters

Talina Bayeleva, Queensland Brain Institute, The University of Queensland.
Project: The effect of emotion authenticity on subconscious emotion perception. 2018-present.

Clare Harris, Queensland Brain Institute, The University of Queensland.
Project: Learning Under Conditions of Uncertainty and Threat. 2017-2019.

Honours

Holly Pertile, Monash Medical Centre, Monash University.
Project: Regularity Learning in Schizophrenia and Psychosis. 2017-2018.

Visiting Research Student

Moritz Bammel. Queensland Brain Institute, The University of Queensland. 2018.

Research Assistant

Maria Kazovsky, University of Queensland Centre for Clinical Research, The University of Queensland. 2012.

AWARDS AND FUNDING

Melbourne School of Psychological Science MRI Research Funding Scheme.

Chief Investigator: \$16,000, 2019.

Strategic Initiative Project funding for Associate Investigators of the ARC Centre for Integrative Brain Function.

Associate Investigator: \$12,500, 2017-2018.

Brain Function EMCR Travel Award.

Recipient: \$1,000, 2017.

How does the brain quickly recognize threat and can we improve it?

Chief Investigator: \$2,100, 2017-2018.

Sunshine Coast Association of Relatives and Friends of the Mentally Ill (ARAFMI) scholarship fund.

Recipient: \$98,612, 2013-2016.

Queensland Brain Institute postgraduate top-up scholarship.

Recipient: \$20,000, 2013-2016.

Rising Star of Queensland Science, National Science Week, 2015.

PUBLIC ENGAGEMENT

Pint of Science Festival: Mental Illness and Hallucinations.

- Invited speaker, 2019.

Queensland Brain Institute Tour: Indooroopilly Probus Group.

- Invited speaker, 2018.

The Association of Relatives and Friends of the Mentally Ill (ARAFMI).

- Invited speaker at an Ipswich Hospital Foundation Trivia night, 2015.
- Presenter at yearly ARAFMI luncheons, 2013 - 2017.

ACADEMIC SERVICE

Reviewing

- Biological Psychiatry
- Psychological Medicine
- Clinical Neurophysiology
- Human Brain Mapping

Organizational

- Chair of Symposium: “Cognition”, Systems and Computational Neuroscience Down Under (SCiNDU) Conference 2017.

Committees

- Gender, Equity, and Diversity Committee, ARC Centre of Excellence for Integrative Brain Function.

Media coverage

Researchers discover the brain circuits that rapidly detect friend or foe

- <https://www.futurity.org/brain-emotions-friend-foe-stria-terminalis-2218322-2/>
- <http://getstem.com.au/researchers-discover-the-brain-circuits-that-rapidly-detect-friend-or-foe/>
- <https://neurosciencenews.com/friend-foe-brain-15213/>
- <https://www.njus.me/int/news/health-care/0/13233968/researchers-discover-the-brain-circuits-that-rapidly-detect-friend-or-foe>

Neuroscientists Explore Emotion Perception Deficits in Schizophrenia

- <https://www.technologynetworks.com/neuroscience/news/neuroscientists-explore-emotion-perception-deficits-in-schizophrenia-305258>

- https://www.reddit.com/r/science/comments/8so0vi/new_schizophrenia_research_deepens_understanding/

Neuroimaging gives insight into mental health issues, Healthy Living Ipswich magazine, issue #6, 2014

COLLABORATIONS

Australia:

- University of Melbourne
- Monash University
- University of Queensland Centre for Clinical Research
- Addiction and Mental Health Service, Queensland Health
- Queensland Brain Institute

Europe:

- Institute of Psychiatry, Psychology and Neuroscience, King's College London
- Durham University