

Guy A. Prochilo

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Education

2015 – present	Ph.D. (Psychology)	University of Melbourne
2013	B.Sc. (Hons)	University of Queensland
2012	B.Sc. & B.Bus.Man	University of Queensland

Research

Overview

- My current research focus is a pilot and feasibility trial of an aerobic exercise and mindfulness-based intervention, where each training modality is completed concurrently. The goal of this project is to assess the feasibility of a future definitive trial, and to examine its preliminary effect on chronic psychosocial stress in a nonclinical population.
- In this project I assess the trial response at multiple levels of analysis. This requires expertise in data of multiple forms, including: (1) psychometric questionnaires, (2) immunoassay data, (3) exercise physiology data, and (4) structural neuroimaging data. The long-term goal of this project is to inform workplace stress management theory and practice through a context of organizational neuroscience.
- My overall approach to research is guided by an interest in open science practices, reproducibility, and a confidence interval approach to statistical inference.
- I am proficient in R and have published my own R statistical package on GitHub.

Peer Reviewed Articles

- 2019 **Prochilo, GA.**, Louis, WR., Bode, S., Zacher, H., & Molenberghs, P. An Extended Commentary on Post-Publication Peer Review In Organizational Neuroscience. *Meta-Psychology*, 3, 1–26. doi:10.15626/MP.2018.935.
- 2017 Molenberghs, P., **Prochilo, GA.**, Steffens, NK., Zacher, H., & Haslam, SA. The Neuroscience of Inspirational Leadership. *Journal of Management*, 47(7), 2168–2194. doi:10.1177/0149206314565242.

Preprints

- 2019 **Prochilo, GA.**, Costa, RJ., Hassed, C., Chambers, R., & Molenberghs, P. The Effects of a 16-week Aerobic Exercise and Mindfulness-based Intervention on Chronic Psychosocial Stress: A Nonrandomized Pilot and Feasibility Trial. *PsyArXiv Preprints*, doi:10.31234/osf.io/8w45k

Conference Presentations

- 2019 **Prochilo, GA.**, Louis, W., Bode, S., Zacher, H., & Molenberghs, P. Organizational Neuroscience Needs Careful and Consistent Post-publication Peer Review. Presented at the *Association for Interdisciplinary Meta-research & Open Science Conference*, Melbourne, Australia.
- 2018 **Prochilo, GA.**, Dominguez, J., Costa, R., & Molenberghs, P. The Effects of a 16-week Combined Aerobic Exercise and Mindfulness-based Intervention: a Pilot Study. Presented at the *Society for Neuroscience Annual Meeting*, San Diego, US.
- 2018 **Prochilo, GA.**, Dominguez, J., Costa, R., & Molenberghs, P. The Effects of a 16-week Combined Aerobic Exercise and Mindfulness-based Intervention: a Pilot Study. Presented at the *Australasian Society for Social and Affective Neuroscience Annual Meeting*, Brisbane, Australia.
- 2016 **Prochilo, GA.**, Molenberghs, P., Steffens, NK., Zacher, H., & Haslam, SA. The Neuroscience of Inspirational Leadership: The Importance of Collective-oriented Language and Shared Group Membership. Presented at the *Australasian Society for Social and Affective Neuroscience Annual Meeting*, Sydney, Australia.

Professional Experience

- 2015 – present **PhD Candidate**
- Supervised research, University of Melbourne, VIC
- Conduct a non-randomized pilot and feasibility trial to assess the effect of combination mental and physical training on mental health, exercise physiology, and brain structure.
- Relevant skills: R, R Studio, R Markdown, Tidyverse, MATLAB, SPM12, Git, GitHub, L^AT_EX, Open Science Framework, collection and processing of biological (blood) samples, immunoassay, exercise physiology testing, quantitative analysis methods (*t* tests, ANOVA, correlation, mixed models, robust statistics, power analysis, & accuracy in parameter estimation), problem-solving, information management, & scholarly writing.
- 2019 – present **Casual Statistics Advisor**
- Institute for Social Neuroscience (ISN), VIC
- Simulate multivariate sample data under requested constraints (e.g., adhering to specific covariance matrices, measures of location, and dispersion) while ensuring data satisfy parametric test assumptions; assist students to assess research objectives, propose appropriate statistical models, and ensure statistical models are implemented correctly.
- Relevant skills: R, R Studio, & quantitative analysis methods (e.g., multivariate sampling, *t* tests, ANOVA, correlation, power analysis), problem-solving, & clear communication.
- 2019 – present **Volunteer ResLead**
- Research Platform Services, University of Melbourne, VIC
- Assist novice programmers in introductory R workshops.
- Relevant skills: R, R Studio, Tidyverse, Windows/Mac OS/Linux, & clear communication.
- 2016 – 2017 **Postgraduate Student Mentor**
- Monash Postgraduate Association, Monash University, VIC
- Guide and provide counsel to new postgraduate students throughout their time at Monash.
- Relevant skills: Mentoring, coaching, & arranging social activities.
- 2014 – 2015 **Customer Relationship Manager**
- Credit Corp, Brisbane, QLD
- Prospect delinquent financial accounts and negotiate with customers the benefits of closing accounts in a cold calling sales role.
- Relevant skills: Account management, cold calling, negotiation, & relationship building.
- 2013 **Business Research Methods Tutor**
- Queensland Business School, University of Queensland, QLD
- Teach undergraduate students quantitative research methods in an organizational context, including statistical analysis and research report writing.
- Relevant skills: Advanced MS Excel, quantitative methods, public speaking, & mentoring.

Awards

- 2019 **Conference Poster Award (Top 10)**
Melbourne Research Bazaar Conference, VIC
- 2018 **Melbourne Research Scholarship**
University of Melbourne, VIC
- 2018 **Melbourne School of Psychological Sciences Travel Grant**
University of Melbourne, VIC
- 2017 **Monash University Volunteer of the Year Award (Nominated)**
Monash University, VIC

Professional Memberships

- Association for Interdisciplinary Meta-Research and Open Science
www.amos-2019.netlify.com
- Australia and New Zealand Open Research Network
www.anzopenresearch.org
- Society for the Improvement of Psychological Science
www.improvingpsych.org
- The Australasian Society for Social and Affective Neuroscience
www.as4san.com