

## CURRICULUM VITAE

### Toby Prike

#### CONTACT INFORMATION

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School of Psychological Science,  
University of Western Australia,  
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#### EDUCATION

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##### **Doctor of Philosophy (Research)**

**2014 – 2018**

Completed the requirements for a PhD in Cognitive Psychology

Thesis Title: *Was That Just a Strange Coincidence or am I Psychic?*

*Examining the Relationships Between Anomalistic Belief, Reasoning, and Cognitive Bias*

Primary Supervisor: Dr. Michelle M. Arnold (Flinders University)

Associate Supervisor: Dr. Paul Williamson (Flinders University)

SPA Lab, College of Education, Psychology, and Social Work,  
Flinders University, South Australia

##### **Bachelor of Psychology (Honours) *First Class***

**2013**

Supervisor: Dr. Michelle M. Arnold

School of Psychology, Flinders University, South Australia

##### **Bachelor of Psychological Science**

**2010 – 2012**

School of Psychology, Social Work, and Social Policy, University of South Australia, South Australia

#### RESEARCH INTERESTS

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Cognition (both basic and applied); judgement; decision making; reasoning; metacognition; belief formation and maintenance; cognitive bias; rationality; analytical thinking; motivated reasoning; context effects; migration; decision making in applied contexts

#### EMPLOYMENT HISTORY

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##### **Research Associate**

**2021-Present**

Working on the Australian Research Council funded project: Combating Misinformation – Designing a Toolkit to Address a Global Problem

School of Psychological Science, University of Western Australia

##### **Research Fellow**

**2018-2021**

Working on the European Research Council funded project: Bayesian Agent-Based Population Studies: Transforming simulation models of human migration

Department of Social Statistics and Demography, University of Southampton

## HONOURS AND AWARDS

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### **The Australian Government Research Training Program Scholarship** **2017**

- Australian Government sponsored stipend awarded to research higher degree students of exceptional research potential.
- Award: \$26,682 per annum

### **Flinders University Research Student Conference Travel Grant** **May 2016**

- Awarded to research higher degree candidates to subsidise attendance at conferences to present a paper or poster, which will result in a significant improvement to the quality of the thesis.
- Award: \$763 to assist with flights to attend the Psychonomic Society's 57th Annual Meeting in Boston, MA, November 17-20, 2016.

### **Australian Postgraduate Award (APA)** **2014 – 2016**

- Australian Government sponsored stipend awarded to research higher degree students of exceptional research potential
- Award: \$25,849 per annum

### **Chancellor's Letter of Commendation** **2013**

- Flinders University
- Awarded to a student whose academic performance is outstanding (GPA is equal to or greater than 6.25 out of 7.00) in a year of study in an undergraduate or postgraduate coursework program.

### **University Merit Award** **2011, 2012**

- University of South Australia
- Awarded to students whose cumulative grade point average for a year of study places them in the top 15% of students in their undergraduate program.

## PUBLISHED JOURNAL ARTICLES

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Czaika, M., Bijak, J., & **Prike, T.** (in press). Migration decision-making and its key dimensions. *The Annals of the American Academy of Political and Social Science*

**Prike, T.**, Arnold, M. M., & Williamson, P. (2020). The relationship between anomalistic belief, misperception of chance, and the base rate fallacy. *Thinking & Reasoning*, 26, 447-477. doi:10.1080/13546783.2019.1653371

**Prike, T.**, Arnold, M. M., & Williamson, P. (2018). The relationship between anomalistic belief and biases of evidence integration and jumping to conclusions. *Acta Psychologica*, 190, 217-227. doi:10.1016/j.actpsy.2018.08.006

**Prike, T.**, Arnold, M. M., & Williamson, P. (2017). Psychics, aliens, or experience? Using the Anomalistic Belief Scale to examine the relationship between type of belief and probabilistic reasoning. *Consciousness & Cognition*, 53, 151–164. doi:10.1016/j.concog.2017.06.003

Arnold, M. M., Chisholm, L. M., & **Prike, T.** (2016). No pain no gain: The positive impact of punishment on the strategic regulation of accuracy. *Memory*, *24*, 146–153. doi:10.1080/09658211.2014.990982.

Arnold, M. M., & **Prike, T.** (2015). Comparative difficulty and the strategic regulation of accuracy: The impact of test-list context on monitoring and meta-metacognition. *Acta Psychologica*, *157*, 155–163. doi:10.1016/j.actpsy.2015.02.018.

### **MANUSCRIPTS SUBMITTED FOR PUBLICATION**

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**Prike, T.**, Bijak, J., Higham, & P. A. (2021). How safe is this trip? Judging personal safety in a pandemic based on information from different sources.

### **MANUSCRIPTS IN PREPARATION**

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**Prike, T.**, Bijak, J., Higham, & P. A. (2021). Eliciting utility functions for migration decisions. Manuscript in preparation.

**Prike, T.**, Arnold, M. M., & Williamson, P. (2021). Understanding news: How anomalistic belief, political belief, and an analytical thinking style relate to the interpretation of news articles. Manuscript in preparation.

**Prike, T.**, Arnold, M. M., & Williamson, P. (2021). Non-evidence based beliefs: Examining the potential underlying role of evidence integration biases and thinking style. Manuscript in preparation.

### **BOOK CHAPTERS**

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**Prike, T.**, Higham, P.A., & Bijak, J. (in press). The boundaries of cognition and decision-making. In J. Bijak (Ed.), *Towards Bayesian model-based demography: Agency, complexity and uncertainty in migration studies* (Methodos Series). Springer.

**Prike, T.** (in press). Replicability and transparency in modelling. In J. Bijak (Ed.), *Towards Bayesian model-based demography: Agency, complexity and uncertainty in migration studies* (Methodos Series). Springer.

### **PEER REVIEWED CONFERENCE PROCEEDINGS**

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Bijak, J., Higham, P. A., Hilton, J., Hinsch, M., Nurse, S., **Prike, T.**, Smith, P. W. F., Reinhardt, O., & Uhrmacher, A. M. (2020). Modelling migration: Decisions, processes and outcomes. In K.-H. Bae, B. Feng, S. Kim, S. Lazarova-Molnar, Z. Zheng, T. Roeder, & R. Thiesing (Eds.), *Proceedings of the 2020 Winter Simulation Conference* (pp. 2613-2624).

Bijak, J., Grow, A., Higham, P. A., Hilton, J., Hinsch, M., Lipscome, K., Nurse, S., **Prike, T.**, Reinhardt, O., Smith, P. W. F., & Uhrmacher, A. M. (in press). Teaching a modelling process: Reflections from an online course. *Proceedings of the 2021 Winter Simulation Conference*.

**CONFERENCE/WORKSHOP PRESENTATIONS**

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- Prike, T.**, Bijak, J., & Higham, P. A. (2020, November). Prike, T., *Judging Likelihood of Safety Based on Information from Different Sources*. Paper presented at the 60th Annual Meeting of the Psychonomic Society. Montreal, Canada.
- Prike, T.**, Bijak, J., & Higham, P. A. (2019, November). *Generalizing Financial Decision Making to Other Domains*. Paper presented at the 60th Annual Meeting of the Psychonomic Society. Montreal, Canada.
- Prike, T.**, Bijak, J., & Higham, P. A. (2019, November). *Generalizing Financial Decision Making to Other Domains*. Poster presented at the 40th Annual Meeting of the Society for Judgment and Decision Making. Montreal, Canada.
- Prike, T.**, Bijak, J., & Higham, P. A. (2018, November). *Eliciting Utility Functions for Migration Decisions*. Paper presented at the Uncertainty and Complexity of Migration Workshop. London, England.
- Arnold, M. M., **Prike, T.**, & Christian, M. W. (2017, November). *The Role of Non-Evidence Based Beliefs and Thinking Style in the Receptivity to Pseudo-Profound Bullshit*. Paper presented at the 58th Annual Meeting of the Psychonomic Society. Vancouver, Canada.
- Prike, T.**, Arnold, M. M. & Williamson, P. (2017, November). *Exploring the Relationships Between Biases in Information Integration, Thinking Styles, and Conspiracy Theory Beliefs*. Poster presented at the 58th Annual Meeting of the Psychonomic Society. Vancouver, Canada.
- Arnold, M. M., **Prike, T.**, & Williamson, P. (2017, January). *Equal, But Not the Same: The Effect of Context Manipulations on the Strategic Regulation of Accuracy*. Paper presented at the 12th Biennial Meeting of the Society for Applied Research in Memory and Cognition (SARMAC) Sydney, Australia.
- Hodge, J. H., Arnold, M. M., Welch, D.A. & **Prike, T.** (2017, January). *Extraordinary Beliefs and Memory: Exploring the Relationship Between Anomalistic Belief and Both True and False Memory*. Poster presented at the 12th Biennial Meeting of the Society for Applied Research in Memory and Cognition (SARMAC) Sydney, Australia.
- Prike, T.**, Arnold, M. M. & Williamson, P. (2017, January). *The Relationship Between Type of Anomalistic Belief, Reasoning Ability, and Cognitive Bias*. Poster presented at the 12th Biennial Meeting of the Society for Applied Research in Memory and Cognition (SARMAC). Sydney, Australia.
- Arnold, M. M., Klindzic, N., Hodge, J. H. & **Prike, T.** (2016, November). *Investigating Rates of False Memory and Confirmation Bias for Believers of Anomalistic Phenomena*. Poster presented at the 57th Annual Meeting of the Psychonomic Society. Boston, USA.

**Prike, T.**, Arnold, M. M. & Williamson, P. (2016, November). *Anomalistic Belief, Base Rates, and Perception of Randomness: Relationships Vary Depending on Type of Anomalistic Belief*. Poster presented at the 57th Annual Meeting of the Psychonomic Society. Boston, USA.

Arnold, M. M., **Prike, T.** & Williamson, P. (2016, May). *It's context all the way down: The impact of filler-item difficulty and default options on the strategic regulation of accuracy*. Paper presented at the International Meeting of the Psychonomic Society. Granada, Spain.

**Prike, T.**, Arnold, M. M. & Williamson, P. (2016, May). *Psychics, aliens, and bias: the relationship between anomalistic beliefs, the bias against disconfirming evidence and the jumping to conclusions bias*. Poster presented at the International Meeting of the Psychonomic Society. Granada, Spain.

Arnold, M. M., Vozzo, N., Welch, D. A., McCann, L. M. & **Prike, T.** (2015, November). *Understanding anomalistic belief: Exploring memory and reasoning for believers of extraordinary phenomena*. Paper presented at the 56th Annual Meeting of the Psychonomic Society. Chicago, USA.

**Prike, T.**, Arnold, M. M. & Williamson, P. (2015, November). *Understanding belief in the extraordinary: Anomalistic belief and probabilistic reasoning*. Poster presented at the 56th Annual Meeting of the Psychonomic Society, Chicago, USA.

Arnold, M. M. & **Prike, T.** (2014, September). *The influence of comparative difficulty on the strategic regulation of accuracy and confidence*. Paper presented at the 2nd International Conference on Metacognition. Clermont-Ferrand, France.

## **COLLOQUIA & BROWNBAG PRESENTATIONS**

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**Prike, T.**, Bijak, J., & Higham, P. A. (2019, November). *Generalizing Financial Decision Making to Other Domains*. Strategic Organization Design Unit: Research Seminar Series, University of Southern Denmark, Denmark.

**Prike, T.**, Arnold, M. M., & Williamson, P. (2017, November). *Was that just a Strange Coincidence or am I Psychic? Examining the Relationships Between Anomalistic Belief, Reasoning, and Cognitive Bias*. School of Psychological Science, Oregon State University, Oregon, USA.

**Prike, T.**, Arnold, M. M., & Williamson, P. (2015, April) *The Relationship between Cognitive Biases and Anomalistic Beliefs*, School of Psychology Colloquium Series, School of Psychology, Flinders University, South Australia.

**Prike, T.** & Arnold, M. M. (2013, September). *Monitoring and Meta-metacognition for Words and Faces*. Psychology Honours Presentation Series, School of Psychology, Flinders University, South Australia.

**FUNDING**

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School of Psychology PhD Publications Award, Flinders University	<b>2017</b>
<ul style="list-style-type: none"> <li>• Award: \$300</li> </ul>	
School of Psychology PhD Research Support, Flinders University	<b>2016</b>
<ul style="list-style-type: none"> <li>• Award: \$1,200</li> </ul>	
School of Psychology PhD Conference Funding, Flinders University	<b>2016</b>
<ul style="list-style-type: none"> <li>• Award: \$500</li> </ul>	
School of Psychology PhD Conference Funding, Flinders University	<b>2015</b>
<ul style="list-style-type: none"> <li>• Award: \$1,500</li> </ul>	
School of Psychology PhD Research Support, Flinders University	<b>2015</b>
<ul style="list-style-type: none"> <li>▪ Award: \$1,500</li> </ul>	
School of Psychology PhD Research Support, Flinders University	<b>2014</b>
<ul style="list-style-type: none"> <li>▪ Award: \$1,500</li> </ul>	
School of Psychology Honours Research Support, Flinders University	<b>2013</b>
<ul style="list-style-type: none"> <li>▪ Award: \$350</li> </ul>	

**TEACHING EXPERIENCE**

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**Teaching and Theme Tutor (Fake News) for Short Course on Agent-based Modelling for Social Scientists** **2020**

Prepared a prerecorded video, reading list, activities, and conducted the live discussion for a session titled “Towards psychological realism in agent-based models”.

I was also the theme tutor for the topic “Political Fake News” and, in collaboration with a coding tutor, supervised a small group of course participants and helped them to develop agent-based models of the spread of political fake news.

**Topic Coordination, Flinders University** **2018**

Coordinated the topic PSYC1108: Psychology of Surviving and Thriving. Primary responsibilities included: managing day to day running of the topic, responding to student queries, marking, dealing with extension requests, announcements etc.

**Undergraduate Teaching Assistance, Flinders University:**

PSYC 2018: Research Methods 2 – Teaching assistant	<b>2018</b>
PSYC 1108: Psychology of Surviving and Thriving – Teaching assistant	<b>2017</b>
PSYC 2018: Research Methods 2 – Teaching assistant	<b>2017</b>
PSYC 2021: Human Development – Teaching assistant	<b>2016</b>
PSYC 2018: Research Methods 2 – Teaching assistant	<b>2016</b>
PSYC 2021: Human Development – Teaching assistant	<b>2015</b>
PSYC 2018: Research Methods 2 – Teaching assistant	<b>2015</b>

**Assistance with Supervision of Honours Students** **2015, 2016, 2017**

Provided assistance with the supervision of honours students, primarily in the areas of study design, creation of stimuli, experimental set up, and data collection.

**Assistance with Exchange Student Research Project 2016**

Provided assistance with the supervision of a research project for two exchange students from Temasek Polytechnic, Singapore. Assistance was provided in the areas of study conception and design, experimental set up, and data collection.

**ADMINISTRATION AND PROFESSIONAL SERVICE**

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**School of Psychology Research Committee: Student Representative 2015-2017**

Representing Psychology research postgraduates on the School of Psychology Research Committee. Involved in the approval of funding for all student research and the approval of conference support and publication incentives for postgraduate students and staff members. Also involved in discussions to establish eligibility criteria and administrative processes for funding and incentives provided by the School of Psychology. Contributing to the design and implementation of funding schemes and incentives designed to support students and staff and improve the research output of the school.

**External Moderation of a Topic 2017, 2018**

Moderated and provided feedback on the grades, assignments, and exams for PSYC 338: Child Development in a Cultural Context, at HELP University, Malaysia.

**Honours Proposal Committee Member 2017**

Provided feedback and advice regarding the research proposals for two separate student projects. Required to consider aspects such as feasibility of the project, appropriateness of size and scope, research design, and planned statistical analyses.

**Student Consultative Committee: Student Representative 2016**

Represented postgraduate students on the Student Consultative Committee for the Faculty of Social and Behavioural Sciences. Involved in discussions with the faculty leadership team about future directions and plans for the faculty and the university. Primarily responsible for providing student feedback on planned changes within the faculty and for highlighting issues relevant to students.

**University Open Day Volunteer 2016**

Volunteered at the Psychology booth for the Flinders University Open Day. Was responsible for providing demonstrations for prospective students and answering their questions about studying Psychology at Flinders University.

**Placement Supervisor for 3<sup>rd</sup> Year Psychology Student 2015**

Provided support and training for a 3<sup>rd</sup> Year Psychology student.

**Volunteer for High School Student Visits 2015, 2016, 2017**

Volunteered to discuss research and provide demonstrations of psychology experiments to high school students who were visiting the School of Psychology at Flinders University.

**Undergraduate Topic and Exam Marker, Flinders University:**

PSYC 1108: Psychology of Surviving and Thriving – Topic marker 2017

PSYC 2018: Research Methods 2 – Topic marker 2014-2017

**Psychonomic Society 2015 – Present**  
Member

**Society for Applied Research in Memory and Cognition (SARMAC)      2016-2017**  
Student Member

**Society for the Improvement of Psychological Science (SIPS)                      2018-Present**  
Member

**Society for Judgment and Decision Making (SJDM)                                      2018-Present**  
Member

## **REVIEWING**

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Applied Cognitive Psychology  
Cognitive Neuropsychiatry  
Demographic Research  
Imagination, Cognition and Personality  
Frontiers in Psychology  
Psychological Reports

## **PROFESSIONAL DEVELOPMENT AND COURSES**

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- MetaScience Symposium **2019**
- Society for the Improvement of Psychological Science Conference **2019**
- Twitter Data Workshop **2017**
- Flinders Psychology Postgrad Fortnightly Statistics Workshops **2017**
- Bayesian Hierarchical Modelling Weekly Workshops Member **2016**
- Flinders Psychology Postgrad Professional Development Workshops **2015, 2017**
- COMS 9001 Communication Skills for Research Higher Degree Students **2014**
- Cognitive Psychology Journal Club Member, School of Psychology **2014-2017**

## **TECHNICAL SKILLS AND PROFICIENCIES**

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Proficient with statistical software programs:

- R
- IBM SPSS Statistics
- JASP statistics software

Experience with programming languages:

- Javascript
- Python

Proficient with online survey software:

- Qualtrics Survey Software

Experience running experiments and surveys online:

- Prolific
- Amazon's Mechanical Turk
- CrowdFlower
- MicroWorkers



**REFEREES**

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**Professor Ullrich Ecker**

School of Psychological Science

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**Professor Jakub Bijak**

Department of Social Statistics and Demography

University of Southampton, Southampton, United Kingdom

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**Dr. Philip A. Higham**

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University of Southampton, Southampton, United Kingdom

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**Dr. Michelle M. Arnold**

Primary Doctoral Supervisor

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