LUKE STRICKLAND

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ABOUT ME

I'm a scientist and computational modeller. In my current position at Curtin's Future of Work Institute, I develop biomathematical models of fatigue. I apply these models to predict human fatigue in the workplace, informing work design. In my previous work, I focused on developing computational models of cognition, in order to understand how people perform cognitively demanding, safety-critical workplace tasks.

EDUCATION

2012 – 2017 **Doctor of Philosophy**
DEAN'S LIST
Psychology
University of Western Australia

2011 **Bachelor of Arts, Honours**
FIRST CLASS
Psychology
University of Western Australia

2008 – 2010 **Bachelor of Arts, Major in Psychology**
University of Western Australia

TECHNICAL SKILLS

Advanced R, Python
Programming

Unix, Git and GitHub, LaTeX
Computing

Familiarity with bash, SQL
Computing

Dynamic data visualisation and document creation
Computing

Advanced statistical modelling
Statistics

Developing and evaluating bespoke computational models
Statistics

OTHER SKILLS

Presenting research findings
Professional Communication

Research supervision and skills sharing
Leadership

Working with collaborators and stakeholders
Soft skills

RESEARCH

- Twelve high-impact publications
- Eleven conference presentations and an invited keynote lecture
- Peer-reviewed R software

WORK EXPERIENCE

2020-PRESENT
Curtin University
Post-doctoral Research Fellow

Developing Bayesian methods to evaluate and apply models of human fatigue. Predicting fatigue to inform rostering decisions.

2019
University of Western Australia
Research Associate

Statistical modelling in R and Python. Writing scientific manuscripts. Supervising the research projects of PhD and honours students. Programming experiments.

2016 - 2018
University of Tasmania
Post-doctoral Research Fellow

Coordinating a highly successful research program across three universities. Developing Bayesian methods to estimate the parameters of computational cognitive models and to evaluate the models. Programming experiments.

AWARDS

2020-2023 **ARC Discovery Project**
University of Western Australia

2019 **Curtinnovation Finalist**
Curtin University

2019 **Early Career Publication Impact Award**
University of Western Australi

2016-2019 **Collaborative Research Project**
CSIRO, University of Tasmania, UniSA

2018 **Invited Keynote Presentation**
Heidelberg University

2017 **Honourable mention, Dean's list, PhD thesis**
University of Western Australia

REFERENCES

On request