Kurt Stoeckl **Last update: November 2021**

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RESEARCH INTERESTS

Currently I'm looking at extending the theory of Gröbner basis for operads to properads and props. Informally, operadic structures are graph like structures with further data pasted on top, and Gröbner basis provide a minimal description of these structures.

EDUCATION

The University of Melbourne

PhD in School of Mathematics and Statistics 2021–2024

Supervisor: Dr Marcy Robertson (Expected)
Co-Supervisor: Prof Jan de Gier

Master of Science: Mathematics and Statistics, with Distinction 2018–2020

Supervisor: Dr Richard Brak
Thesis Title: Combinatorial Applications of Partial Peano Algebras

Bachelor of Science: Computing and Software Systems 2014–2017

Diploma of Mathematical Science taken concurrently

SCHOLARSHIPS

Melbourne Research Scholarship 2021-2024

Masters - Mathematics and Statistics School Scholarship 2018-2020
(3 times in period)

RESEARCH EXPERIENCE

CSIRO Summer Research Scholarship 2017-2018

The summer research project was on the topic of Bayesian networks, in particular naive Bayes modes and hidden Markov models. These models and related algorithms were implemented and applied to real world data using Python.

PUBLICATIONS

Coming soon!

TALKS

Coming soon!

REAL WORLD EXPERIENCE

Westpac Risk Analysis Internship 2016-2017

Interning for 12 weeks as a member of the stress testing team, my work centred around researching and validating early warning indicators for risk events. Studied indicators included measures of consumer sentiment collected from social media, financial stress indices and various internal data sources. Tools used included Python, Excel, SAS and SQL.