

Clinton Boys

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Citizenships: Australian, Israeli | Languages: English, Hebrew

I am a data scientist, algorithm developer, software engineer and team leader with a deep mathematical and analytical background.

Experience

- Sep 2020 – **Algorithm development team leader**, Via, Tel Aviv, Israel.
now Leading the supply optimisation team in the algorithms and optimisation research group.
- Aug 2018 – **Data scientist and algorithms developer**, Via, Tel Aviv, Israel.
Sep 2020 Part of the predictive optimisation team in the algorithms research group working on driver behaviour models, incentive optimisation and shift planning.
- Sep 2016 – **Data science and engineering team leader**, Playbuzz, Tel Aviv, Israel.
Jul 2018 Built and led a team of data scientists and data engineers. Designed and built scalable data collection, processing (ETL) and serving infrastructure.
- 2015 – 2016 **Data scientist**, Playbuzz, Tel Aviv, Israel.
2015 **Honorary associate and lecturer**, University of Sydney, Sydney, Australia.
- 2011 – 2014 **Postgraduate teaching fellow**, University of Sydney, Sydney, Australia.

Education

- 2011–2015 **Ph.D., Pure Mathematics**, University of Sydney, Sydney, Australia.
Thesis title: *Alternating quiver Hecke algebras*. Supervisor: *Professor Andrew Mathas*.
My [thesis](#) gives an explicit connection between my creation and a family of algebraic objects which have been studied for centuries, providing new insight and structure for these objects.
- 2007–2010 **B.Sc. (Advanced Mathematics) (Hons)**, University of Sydney, Sydney, Australia.
First Class Honours in Pure Mathematics.

Research publications

- 2017 *Quiver Hecke algebras for alternating groups*. (with A. Mathas). Math. Z. **285** pp. 897–937 (2017). arXiv:[1602.07028](#).
- 2016 *Alternating quiver Hecke algebras*. J. Alg. **449** pp. 246–263 (2016). arXiv:[1504.05532](#).
- 2016 *Semisimple representations of alternating cyclotomic Hecke algebras*. Algebr Represent Theor **19** pp. 235–253 (2016). arXiv:[1502.07065](#).

Skills

A mathematician by training, I am also a full stack data scientist and software engineer, comfortable and experienced with collecting and storing data, analysis, experimentation, modeling, visualising, communicating and incorporating into a product. Below is a list of some stuff I have experience with.

- Infra** APIs, containers, databases, distributed computing, ETL, infrastructure as code
- Languages** Clojure, Haskell, Python, R, Rust, SQL, Typescript
- Libraries** numpy, OR-tools, pulp, pytorch, python-mip, React, scipy, sklearn, stan, statsmodels, Tensorflow
- Other** AWS, emacs, GAP, git, L^AT_EX, Linux, Mathematica, MATLAB

My [personal website](#) contains a number posts on various topics, and some examples of small personal projects of mine. The code for most of my projects is available on my [Github](#) account.

Interests

I am very interested in politics, elections and electoral systems, as well as the use of mathematical models and data to forecast and predict elections, and to solve or illuminate social problems. I love to travel and to spend time with my family. I'm also very fond of cricket (and its capacity to provide interesting statistics), music of all kinds, and of using computers and the internet to build interesting things.