

Clinton Boys

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Citizenships: Australian, Israeli | *Residency:* United Kingdom | *Languages:* English, Hebrew

I am a mathematician, software engineer and manager with broad experience in the industry and a deep mathematical and analytical background.

Experience

- 2020 – now **Algorithm engineering team lead**, *Via*, London, UK.
Leading the supply optimisation and execution team in the algorithms and optimisation research group. Relocated to London from Tel Aviv in 2023.
- 2018 – 2020 **Algorithm engineer**, *Via*, Tel Aviv, Israel.
Driver behaviour models, incentive optimisation, optimal shift planning and rostering.
- 2016 – 2018 **Data team leader**, *Playbuzz*, Tel Aviv, Israel.
Built and led a team of data scientists and data engineers. Designed and built scalable data collection, processing and serving infrastructure.
- 2015 – 2016 **Data scientist**, *Playbuzz*, Tel Aviv, Israel.
- 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*.
- 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](#).

Patents

- 2023 *Systems for optimal supply planning*. US-20240242147-A1. Based on my work at *Via*.

Technical skills

A mathematician by training, and an experienced manager and team leader, I am also a full stack software engineer and data scientist, 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, MCP, serverless
- Languages** Python, Rust, SQL, Javascript/Typescript, R
- Libraries** Airflow, numpy, OR-tools, pulp, python-mip, React, scipy, sklearn, statsmodels
- Other** AWS, emacs, GAP, git, JIRA, \LaTeX , Linux, LLMs, 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.