Clinton Boys

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

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

Experience

Sep 2023 – now	**Software engineering manager**, *Via*, London, UK. Leading the supply optimisation and execution team in the algorithms and optimisation research group.
Sep 2020 – Aug 2023	**Software engineering manager**, *Via*, Tel Aviv, Israel.
Aug 2018 – Sep 2020	**Algorithm engineer**, *Via*, Tel Aviv, Israel. Part of the predictive optimisation team in the algorithms research group working on driver behaviour models, incentive optimisation and shift planning.
Sep 2016 – Jul 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.
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.*
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	Python, R, Rust, SQL, Javascript/Typescript
Libraries	Airflow, numpy, OR-tools, pulp, python-mip, React, scipy, sklearn, statsmodels
Other	AWS, emacs, GAP, git, LaTeX, 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.