

Clinton Boys

Curriculum vitae

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Nationality: Australian | Languages: English, Hebrew

I am a data scientist, engineer and team leader with a deep mathematical and analytical background, looking for new challenges in data science in a data-literate organisation with access to high-volume and high-impact data.

Experience

- 2018 – now **Data scientist and algorithms developer**, *Via*, Tel Aviv, Israel.
Part of the predictive optimization team in the algorithms research group working on driver behaviour models, incentive optimisation and shift planning.
- 2015 – 2018 **Data science and engineering team leader**, *Playbuzz*, Tel Aviv, Israel.
- Implemented machine learning models in production.
- Built and lead a team of data scientists and data engineers.
- Temporarily lead the BI team responsible for all internal and client-facing reporting.
- Designed and built scalable data collection, processing (ETL) and serving infrastructure.
- 2015 **Honorary associate and lecturer**, *University of Sydney*, Sydney, Australia.
Coordinated MATH1002 Linear Algebra course for summer school students.
Prepared three research papers for publication in high-impact peer reviewed mathematics journals.
- 2011 – 2014 **Postgraduate teaching fellow**, *University of Sydney*, Sydney, Australia.
Provided lectures, tutorials and administration for undergraduate mathematics classes.

Education

- 2011–2015 **Ph.D., Pure Mathematics**, *University of Sydney*, Sydney, Australia.
Thesis title: *Alternating quiver Hecke algebras*. Supervisor: *Professor Andrew Mathas*.
My **thesis** consisted of a careful study of a new family of mathematical objects. The main theorem of 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](https://arxiv.org/abs/1602.07028).
- 2016 *Alternating quiver Hecke algebras*. *J. Alg.* **449** pp. 246–263 (2016). arXiv:[1504.05532](https://arxiv.org/abs/1504.05532).
- 2016 *Semisimple representations of alternating cyclotomic Hecke algebras*. *Algebr Represent Theor* **19** pp. 235–253 (2016). arXiv:[1502.07065](https://arxiv.org/abs/1502.07065).

Skills

I am a full stack data scientist, comfortable and experienced with mining, gathering and storing data, analysis, experimentation, modelling, engineering, implementation and communication.

- Analysis** Python, R, SQL, Excel, Tableau
Infra Databases, ETL, Distributed computing, Docker, AWS Lambda / ECS
ML Python (sklearn, numpy, scipy, statsmodels), R (plyr/dplyr), Spark ML, Tensorflow
Other Mathematica, MATLAB, GAP, Linux, AWS, git

My **personal website** contains a number of examples of small projects that I have undertaken relating to data and data science. 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. I love to travel and meet new people. I'm also very fond of cricket (and its capacity to provide interesting statistics), am a keen runner and love to listen to and create music.