

# JONATHAN RUBIN

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**Birthdate and place:** 13<sup>th</sup> of July, 2001, Israel

**Nationalities:** Australian, Israeli, Romanian

**Languages:** English – fluent, Hebrew – native

**Relevant Skills:** Python, Statistical Analysis/Correlation

## ACADEMIC EDUCATION

**2019 - 2023 BSc + Integrated MSci in Mathematics, Imperial College London - 2nd Year (Expected) (Predicted Grade - First)**

**2017 - 2019 A - Levels in Mathematics, Further Mathematics, Physics and Chemistry (A\*A\*A\*A)**

## SKILLS

- Mathematics: Strong in Applied Mathematics (Calculus and Linear Algebra)
- Programming in Python, R, Javascript, C++ (Beginner)
- Statistics: Experience in analysis of large datasets using R/Python

## RELEVANT ELECTIVE MODULES

- Network Analysis: NetworkX Python Module, Graph Theory, Community Identification and Graph Based Clustering, Bayesian Networks
- Principles in Programming: Object Oriented Programming, Computational Complexity, Data Types and Algorithms, Testing/Debugging

## WORK EXPERIENCE AND PERSONAL PROJECTS

**2016** Software GUI Designer for RA Information Systems (2016) - 2 week work experience programme where I helped to design a tablet based interface for a meeting room booking system, at Imperial College White City Business Incubation Centre

**2020** Programming project (Python) - Developed NLP program, builds a network representation of the language, analysed this network using Community Identification (by Modularity Maximisation) to generate a dataset of word clusters

## COMPETITIONS

- National Cypher Challenge (2018)- 7th place (out of about 400)
- Imperial College Integration Bee (2019)

## SOCIETIES

- Imperial College Israeli Society - Treasurer
- Imperial College Data Science Society - Member

## HOBBIES

- Drumming, Swimming, and Chess

## REFERENCES

Lorenz Wolf (Peer Tutor):  
Imperial College London  
[lorenz.wolf17@imperial.ac.uk](mailto:lorenz.wolf17@imperial.ac.uk)  
(Phone number)

Sheehan Olver (Personal Tutor):  
Reader in Applied Mathematics at Imperial College London  
[s.olver@imperial.ac.uk](mailto:s.olver@imperial.ac.uk)  
(Phone number)