

Resume

Alex Gunning

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Education

- Attended MLAB (a short ML bootcamp) at Redwood Research *(Jan – Feb 2022)*
- Attempted a PhD at UC Berkeley in machine learning; gave up due to the difficulty of getting a US Visa *(Sep 2020 – Jul 2021)*
- MMath at Trinity College, Cambridge *(Oct 2016 – June 2020)*
 - Completed first, second, and third year with the grade of First, achieving respectively the 4th, 18th, and 17th highest mark in the year.
 - For the final year I specialised mostly in statistics and optimization courses

Skills

- Some experience coding in Java, C, PHP, OCaml and MS Excel, among other programming languages.
- Usual workflow Linux, command line, emacs, python (pandas, numpy, sometimes pytorch). Very willing to learn. Also fluent in L^AT_EX.
- Demonstrated experience with tutoring, lecturing, mathematical writing.

Achievements

- International Maths Olympiad (IMO), Gold Medals
 - 2015 (4th place),
 - 2014 (1st place, perfect score)
 - 2013 (8th place)
- Bronze medal at IMO 2012
- Pet programming problems here: <https://github.com/agunning>
- Mathematics writing/research here: <https://postchimpblog.wordpress.com/>

Employment

- Doing work for Epoch Ai for FrontierMath benchmark *(May, Sep – Dec 2024)*
- 10 week research internship at **G-Research** *(Jul – Sep 2020)*
- 10 week research internship at **Jane Street** *(Jul – Sep 2019)*

- 5 week summer project at **CSIRO**, producing document “Pore Pressure Prediction in basins with large non-shale composition using Ji-Fi”. Coding in Java, tinkering around the edges of a program which tries to solve a giant integer optimisation problem. *(Jun – Jul 2017)*

Olympiad teaching/tutoring

- Weekly tutoring of a student of Olympiad maths over Skype over the (3-month) summer holidays. *(Jun – Aug 2018)*
- Mentored a member of the Australian IMO team in the 3 months leading up to IMO 2016.
- Prepared and delivered lectures at Australian Mathematical Olympiad Committee School of Excellence 2015, 2014.

Hobbies

- Pure math
- Origami
- Chess
- Cycling