

Alexander Elzenaar

aelz176@aucklanduni.ac.nz • +64 027 301 7585 • <https://github.com/aelzenaar/>

EDUCATION

The University of Auckland, New Zealand

- MSc. in Mathematics 2021 – ongoing
 - Thesis topic: Deformation spaces of Kleinian groups
 - Advisors: Dr. Jeroen Schillewaert, Distinguished Prof. Gaven Martin (NZ Inst. of Adv. Study, Massey Uni.)
- BSc. (hons) in Mathematics with First Class Honours Jan 2020 – Dec 2020
 - Dissertation: Toric varieties
 - Advisor: Dr. Jeroen Schillewaert
- Certificate in Languages Jul 2019 – May 2020
 - Russian and Ancient Egyptian
- BSc. in Mathematics Dec 2016 – Nov 2019
 - Between 2016 and 2019, I was enrolled in a conjoint Mathematics (BA)/Physics (BSc) degree
 - Exchange student at the University of Toronto, 2018 fall semester

The University of Canterbury, New Zealand

- STAR programme 2016
 - First year university mathematics program for secondary school students

RESEARCH EXPERIENCE

The University of Auckland, New Zealand

- Research assistant (Professional Casual Staff) 2020 – ongoing
 - Studying properties of the real algebraic variety of spherical (t, t) -designs
 - Supervisor: Dr. Shayne Waldron
- Summer research project in Mathematics Dec 2019 – Feb 2020
 - Project: Numerical construction of spherical (t, t) -designs
 - Advisor: Dr. Shayne Waldron

TEACHING AND MARKING EXPERIENCE

The University of Auckland, New Zealand

- Tutor and marker in the Department of Mathematics 2019 – ongoing
 - Tutoring: single- and multi-variate calculus; linear algebra; mathematics for computer science; computational mathematics; mathematics for non-mathematicians (infinities, topology, fractals); real analysis
 - Marking: As for tutoring, with the addition of complex calculus, and logic and proofwriting.
 - In addition, some work editing and expanding the undergraduate linear algebra coursebook.

AWARDS & SCHOLARSHIPS

- University of Auckland Department of Mathematics Student Research Conference prize 2021
- University of Auckland Postgraduate Honours / PG Diploma Scholarship 2020
- University of Auckland Summer Research Scholarship Dec 2019 – Feb 2020
- University of Auckland Faculty of Arts Deans List 2017
- NZQA Outstanding Scholar Award 2016
 - Limited to top 40–60 secondary school students in New Zealand

OTHER WORK EXPERIENCE

MyTuition

- Secondary school tutor 2017 – 2019
 - Mathematics, physics, chemistry, geography

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