lexander Elzenaar

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EDUCATION The University of Auckland, New Zealand

MSc. in Mathematics

2021 – ongoing

- Thesis topic: Deformation spaces of Kleinian groups
- · Advisors: Distinguished Prof. Gaven Martin (NZ Inst. of Adv. Study, Massey Uni.), Dr. Jeroen Schillewaert
- 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
- 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 Mathematics, physics, chemistry, geography 2017 - 2019

2020

[2021-07-22]