

# Alec van Helsdingen

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Portfolio: <https://github.com/ABMvanHelsdingen/Personal-Portfolio>

## EDUCATION

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### 2022-present (in progress)

#### Doctor of Philosophy in Statistics

##### University of Auckland

Presented at the *Spatial Statistics* and *Biometrics* (Australasian region) conferences in 2023

Co-authored [an article](#) published in *Ecology and Evolution* in 2024

Department of Statistics PhD Student Representative in 2024

### 2018-2021

#### Bachelor of Engineering (Honours) with First Class Honours specialising in Engineering Science

##### University of Auckland

GPA of 8.5/9

Completed a Part IV Research Project in 2021 on optimizing electricity distribution networks

Completed a Summer Research Scholarship Project during the 2020-21 summer

### 2013-2017

#### Cambridge International Examinations (CIE) and NZQA Scholarship

##### St Peter's College, Auckland

Received 5 NZQA scholarships in 2017 and the maximum possible UCAS score of 420

## ACHIEVEMENTS AND AWARDS

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**2023** First in Course for STATS 720, University of Auckland

**2018-2020** University of Auckland Faculty of Engineering Dean's Honours List (all three years)

**2017** NZQA Premier Scholarship

**2017** Dux of St Peter's College

## SKILLS

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- Proficient in R and a co-author of a package.
- Familiar with Python, MATLAB, C++ and have also used Julia, SQL and VBA.

- Operations Research including linear and integer programming
- Data Science and Statistics

## **WORK EXPERIENCE**

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**2022-present, 2020-2021**

**University of Auckland**

**Teaching Assistant**

Marking and tutoring Stage III Statistics, and previously Stage III Engineering Science.

**March 2022-December 2022**

**University of Auckland**

**Research Assistant**

This work led into my current PhD studies.

**2021-2022**

**Coscript**

**Python Developer**

Python Developer for the agricultural start-up firm *Farmgate*

**2023, 2020, 2017**

**Electoral Commission**

**Special Vote Issuing Officer**

Issuing of Special Votes at these three general elections.

**2022-present**

**WikiTree**

**Adoption Angel (volunteer role)**

Using my skills in genealogy and genetic genealogy/DNA analysis, I have solved several cases where adoptees have been seeking their birth family.