

# Zhijian Wen

## Curriculum Vitae

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### Personal Summary

I am a graduate with Master major in Statistics, with experiences in data analysis/modeling, programming including developing R-package and data mining. I am interested in programming and I am enjoying to “talk” with computers. I wish to learn more programming in my future. I am keen to join your company where I want to utilize my skills in creative.

### Education

2016–2017 **Msc - Statistics, University of Auckland.**

*Key course: Multivariate Analysis, Data Science Practice, Statistical Inference*  
*Master of Science with First Class Honours*

2015–2016 **BSc(Hons) - Statistics, University of Auckland.**

*Key course: Bayesian Inference, Statistical Computing, Statistical Modelling*  
*Class representation of **Stats 779***

2012–2015 **BSc - Mathematics and Statistics, University of Auckland.**

*Key course: Data Technologies, Applied Multivariate Analysis*

### Projects

Master **Emulate the `persp` plot and `filled.contour` plot in `gridGraphics`.**



The core graphics system in **R** can be divided into two main packages, the older package called **graphics**-package and the newer package called **grid**-package.

The `persp()` is used for drawing 3-D surface and the `filled.contour()` is used for drawing filled level contours in the **graphics**-package. The aim of this project is to implement these two kinds of plots on the **grid**-package.

*Supervisor: Associate Professor Paul Murrell*

Honours **Bayesian inference on forensic glass evidence.**

If a person breaks glass, the tiny broken fragments will transfer to the person. If the glass is broken during the commission of the crime, then these tiny fragments can be used as forensic evidence.

The aim of this project is to fit a zero inflated Poisson mixture model and zero inflated negative mixture model under different situations (e.g. The breaker's distance from the window, Proportion of high persistence fragments).

*Supervisor: Professor James Curran*

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## Work Experience

2016-Present **Teaching assistant**, *University of Auckland*.

**Tutor of Stats 210:** This course introduces the theory that underlies the statistical methods used in practical statistics courses. My job is:

- To help students to understand the concepts of the course
- To help students to solve the problems of tutorials and workshops.

**Tutor and Marker of Stats 220:** This course introduces a variety of computer technologies relevant to storing, managing, and processing data. My job is to help students to understand and solve the “technical” problems:

- The World-Wide Web (HTML), Data Description (XML)
- Data Storage (Spreadsheets, Databases), Data Management and Queries (SQL)
- Data Processing (Scripting, Pattern Matching, R)

**Marker of Stats 380:** A course of statistical computing using the R statistical computing environment

2015-2016 **Summer Scholarship**, *University of Auckland*.

Working on the `inZightMaps`-package, used in the mapping module for **iNZight** I am one of the authors of the `inZightMaps`-package. The works that I have done as follows:

- Map Creation, request a topographic map from Google Maps' API
- Visualization of the geographical data (In topographic map). For example, the size of the data points are determined by magnitude of the earth quakes.
- Map Creation, draw the map by using the geographic information system (GIS)
- Visualization of the geographical data (In GIS map). For example, the colors of the counties are determined by the ratio of the population ratio.

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## Skills

Advance: R, HTML,  $\text{\LaTeX}$

Fair: SAS, SQL, jags, Linux, Lua, JavaScript, GitHub

Basic: C, C++, JAON, XML, MATLAB, Excel

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## Languages

English, Mandarin, Cantonese

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## Interest

- Game Computing
- Statistical Computing
- Table tennis
- Physics

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## Reference

Avaiable upon request