

## Skills

R · SQL · Python · LaTeX ·

Bash · HTML · JavaScript ·

CSS · Machine learning · Data

science · Data visualization ·

Knowledge translation

## Education

### PhD, Industrial-Organizational Psychology

Sep. 2018–May 2023

*University of Guelph*

- Thesis title: **Is Timing Everything? The Effects of Measurement Timing on the Performance of Nonlinear Longitudinal Models**
- Conducted Monte Carlo simulation experiments using R on an Amazon Web Services (AWS) instance to evaluate the performance of structured latent growth curve models under several conditions
- My thesis can be viewed [here](#)

### MSc, Psychology

Sep. 2016–June 2018

*McMaster University*

### Honours BSc, Psychology, Neuroscience & Behaviour

Sep. 2012–June 2016

*McMaster University*

## Employment

### Teaching Assistant

Sep. 2018–May 2023

*University of Guelph*

- Created R scripts for assignments and taught labs for the following courses in measurement and statistics:
  - PSYC 3290 (Conducting Statistical Analyses in Psychology)
  - PSYC 3250 (Psychological Measurement)
  - PSYC 6060 (Research Design and Statistics)
  - PSYC 6380 (Psychological Applications of Multivariate Analysis)
- Taught a variety of topics in statistics (e.g., regression with continuous and categorical [i.e., ANOVA] variables,  $p$  values,  $p$  hacking, effect sizes, factor analysis, latent variable modelling, etc.)

## Data Science Projects


### cobaltCV\*


May 2023

*R Package*

- Created an R package for generating data-driven CVs and cover letters according to a customizable template
- $\text{\LaTeX}$ code was created to specify a template and R functions were created to easily generate CV entries

\*clickable hyperlink to the corresponding repository on my GitHub

sebastiansciarra.com 

sebsciarra 

Sebastian Sciarra 

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seb@sciarra.io 

sebastiansciarra.com 

sebsciarra 

Sebastian Sciarra 

### **sebastiansciarra.com\***

Mar. 2023

*Personal website*

- Used HTML, JavaScript, and CSS to create a personal website for writing blog posts
- Blog posts focus on statistics, machine learning, and coding by explaining technical details, providing demonstrations, and conducting simulation experiments

### **guelphdown\***

Mar. 2023

*R Package*

- Created an R package for generating theses according to the University of Guelph formatting requirements
- $\text{\LaTeX}$ code was created to specify a template, which included different formattings for the preamble, body, references, and appendices
- An example of the formatting can be seen in my [thesis](#)

### **nonlinSimsAnalysis\***

March 2022

*R Package*

- Created an R package automating the cleaning, analysis, and visualization of large data sets for my doctoral dissertation (e.g., 40 000+ rows)
- additional info

### **nonlinSims\***

Jan. 2022

*R Package*

- Created an R package for simulation experiments in my doctoral dissertation
- Package allows the performance of structured latent growth curve models to be evaluated under several different conditions

### **Learning SQL\***

Mar. 2021

*Skill learning*

- Went through 16 of 18 chapters from Alan Beaulieu's [Learning SQL](#)
- Topics include filtering, querying multiple tables, sets, grouping and aggregates, sub-queries, joins, transactions etc.

## **Certifications**

### **DataCamp courses**

June 2018–Aug. 2020

*Skill learning*

- Completed 35 courses ranging from data visualization and writing functions to machine learning topics such as tree-based models and support vector machines. For a full list of the courses, see the relevant section on my LinkedIn [here](#)

\*clickable hyperlink to the corresponding repository on my GitHub