# Sebastian Sciarra

Data scientist

seb@sciarra.io

## Skills

R · SQL · Python · LaTeX Bash · HTML · JavaScript · CSS · Machine learning · Data science · Data visualization · Knowledge translation

## **m** 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**

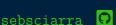
#### **Teaching Assistant**

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.)

#### sebastiansciarra.com 🏠



#### Sebastian Sciarra in



# >/> Data Science Projects

cobaltCV\*

May 2023

R Package

- Created an R package for generating data-driven CVs and cover letters according to a customizeable template
- LATEX code was created to specify a template and R functions were created to easily generate CV entries

<sup>\*</sup>clickable hyperlink to the corresponding repository on my GitHub

#### sebastiansciarra.com\*

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

Skills

R · SQL · Python · LaTeX

Bash · HTML · JavaScript ·

CSS · Machine learning · Data

science · Data visualization ·

Knowledge translation

guelphdown\*

Mar. 2023

Mar. 2023

R Package

Created an R package for generating theses according to the University of Guelph formatting requirements

- ETEXcode was created to specify a template, which included different formattings for the preamble, body, refences, 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

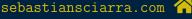
Skill learning

■ Went through 16 of 18 chapters from Alan Beaulieu's Learning SQL

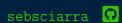
■ Topics include filtering, querying multiple tables, sets, grouping and aggregates, subqueries, joins, transactions etc.

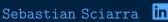












# Certifications

#### **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

<sup>\*</sup>clickable hyperlink to the corresponding repository on my GitHub