Sebastian Sciarra

Data scientist

seb@sciarra.io ✉

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 customizeable template
- LaTeX code was created to specify a template and R functions were created to easily generate CV entries

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*clickable hyperlink to the corresponding repository on my GitHub

sebastiansciarra.com 🏠

sebsciarra

Sebastian Sciarra in

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Knowledge translation

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
- LaTeXcode 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

*clickable hyperlink to the corresponding repository on my GitHub