


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

- Thesis title: **Do the Benefits of Retrieval Practice Remain Under Stress?**
- Used Python to design memory experiments and used R to analyze data.

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


cobaltResume*


May 2023

R Package

- Created an R package for generating résumés and cover letters within RStudio
- \LaTeX code was used to specify a styling template that draws inspiration from the cobalt

*clickable hyperlink to the corresponding repository on my GitHub

sebastiansciarra.com 

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theme in the RStudio IDE

- R functions were created to easily generate résumé entries and merge résumés and cover letters into one PDF file

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
- Blog posts use code from a variety of language to explain content. As an example, my post titled "[Coding and Visualizing the Expectation-Maximization Algorithm](#)" used R, Python, and CSS code

guelphdown*

Mar. 2023

R Package

- Created an R package for generating theses according to the University of Guelph formatting requirements
- \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 that contained functions for automating the cleaning, analysis, and visualization of large data sets for my doctoral dissertation (e.g., 40 000+ rows)

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


firstName
lastName

Position

email@domain.com 

personalwebsite.com 

githubHandle 

firstName lastName 

date

Recruiter Name

Organization Name

200 Bay St.

Toronto, ON M5J 2J2

Dear Mr./Mrs. Recruiter Name,

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

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Nulla malesuada porttitor diam. Donec felis erat, congue non, volutpat at, tincidunt tristique, libero. Vivamus viverra fermentum felis. Donec nonummy pellentesque ante. Phasellus adipiscing semper elit. Proin fermentum massa ac quam. Sed diam turpis, molestie vitae, placerat a, molestie nec, leo. Maecenas lacinia. Nam ipsum ligula, eleifend at, accumsan nec, suscipit a, ipsum. Morbi blandit ligula feugiat magna. Nunc eleifend consequat lorem. Sed lacinia nulla vitae enim. Pellentesque tincidunt purus vel magna. Integer non enim. Praesent euismod nunc eu purus. Donec bibendum quam in tellus. Nullam cursus pulvinar lectus. Donec et mi. Nam vulputate metus eu enim. Vestibulum pellentesque felis eu massa.

Sincerely,

firstName lastName