Matt
MATHEW W. MCLEAN
(he/him)

- 🔲 Australian Work Rights: Subclass 186 Visa
- 🏠 Sydney, Australia
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Experienced Data Scientist and Scrum Master with a PhD in Operations Research and expertise in statistical computing, machine learning, and Agile methodologies. Proven track record in leading teams, optimizing processes, and driving continuous improvement through hypothesis and test driven development.

EDUCATION

Ph.D. in Operations Research
Dissertation: On Generalized Additive Models for Regression with Functional Data
Cornell University - Ithaca, NY, USA 📍
2008 – 2013 📅

B.Sc. (Hons.) in Statistics
University of Manitoba
Winnipeg, MB, CAN 📍
2004 – 2008 📅

WORK EXPERIENCE

Senior Data Scientist - Displayr
Designed features for BI and market research software, contributing to the company's growth from 20 to 100+ employees and nearly $14 million in ARR
2022 – 2024 📅

Data Science Team Lead - Displayr
Lead a team of data scientists to write fast, easy-to-use tools for text analysis, machine learning, regression, and choice modeling using Scrum.
2019 – 2021 📅

Computational Statistician - Displayr
Maintained/co-authored a suite of $40+$ R packages for statistical modeling, visualization, data cleaning and integrating with various web APIs.
2017 – 2019 📅

SKILLS

Programming
- ◉ R ◉ Python ◉ JavaScript ◉ SQL ◉ stan ◉ git

Other tools
- ◉ Agile Methodologies ◉ Circle CI ◉ docker
- ◉ Snowflake ◉ Reproducible Research

CERTIFICATIONS

- 🏷 SAFe® Practice Consultant (SPC)
- 🏷 SAFe® Release Train Engineer (RTE)
- 🏷 Professional Scrum Master II (PSMII)
- 🏷 Pro. Agile Leadership - Evidence Based Management
- 🏷 Professional Scrum Product Owner I (PSPOI)
- 🏷 Professional Scrum Facilitation Skills (PSF)

SAMPLE PROJECTS

Automatic categorization of open-ended text
ML and AI models (ChatGPT) to classify survey responses without text coding
🔲 Displayr - Semi-Automatic Text Categorization

RefManageR
Tools for finding, importing, formatting, searching, and printing bibliographic references in R.
🌐 CRAN - RefManageR
○ github.com/ropensci/refmanager

SELECTED PUBLICATIONS

Variational Message Passing for Elaborate Response Regression Models
- 👤 M. W. McLean and M. P. Wand
- 📘 Bayesian Analysis (2019)
- 🔗 DOI: 10.1214/18-BA1098

Functional Generalised Additive Models
- 👤 M. W. McLean, G. Hooker, et al.
- 📘 Journal of Computational and Graphical Statistics (2014)
- 🔗 DOI: 10.1080/10618600.2012.729985

Forecasting Emergency Medical Service Call Arrivals
- 👤 D. S. Matteson, M. W. McLean, et al.
- 📘 Annals of Applied Statistics (2011)
- 🔗 DOI: 10.1214/10-AOAS442