Mark St. John

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Qualifications

I am a data scientist with over 15 years of international government, academic and private sector experience. Among my qualifications are:

- R, Python, SAS, SPSS
- Relational databases
- SQL

- Analytics
- Deep learning
- Machine learning

- Visualizations
- Reproducible reporting
- Shiny web apps

Additionally, I have demonstrated excellence in communication (e.g., lectured at two universities, written over 20 publications and invited to speak at international conferences). I am also constantly updating my data science skills (e.g., over 20 completed courses from Coursera.org and DataCamp.com).

Experience

Data scientist, 2012–present, independent consultant, Ottawa, ON.
- Developed automated, on-demand business-intelligence applications able to provide custom results for hundreds of business simultaneously:
  - Predicting individual customer value and churn from behaviour using machine-learning.
  - Visualizing industry performance trends with quick reports and interactive web apps.
  - Analyzing customer cohort retention and related factors from mixed data.
  - Forecasting using ARIMA and model-selection.
- Co-developed a global-scale data warehouse and analytic platform (described in Ramirez, St. John et. al. 2015. Frontiers in Ecology and Evolution 30).
- Used deep- and machine-learning methods to analyze primary-research data (e.g., Orwin, St. John et. al. 2015. Oecologia 180).

Scientist, 2007–2012, Landcare Research, Christchurch, New Zealand.
- Led a competitively-funded research program.
- Coordinated data collection and managed relational databases.
- Merged 80 years of historical records with new data streams to conduct novel analyses.
- Affected national policies through communicating my research to government officials.
- Presented my research at scientific conferences and led community outreach events.
- Published twelve peer-reviewed articles, book chapters and reports.
- Managed multiple, concurrent projects and limited resources (e.g., equipment, budgets, training and staff) to meet objectives and deadlines.

Education

Colorado State University	**Ph. D.**, Ecology (2005)
Laurentian University	**M. Sc.**, Biology (1998)
Carleton University	**H. B. Sc.**, Biology (1994)