

Jason Lessels

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```
# To install and read this resume within R:
library(devtools)
install_github("johnDorian/jasonlessels")
library(jasonlessels)
# and then load the resume
vignette("resume")
# For more information...
help(package = jasonlessels)
# or you can continue reading below...
```

Employment()

2014 - Present, Data Analyst, Firetrail Events

Perform data management, sales reporting, and competitor analysis.

2013 - Present, Post Doctoral Research Fellow, University of Aberdeen

Responsible for integrating hydrological and ecosystem models to examine the implications of climate change on soil carbon dynamics in Arctic environments.

2008 - 2013, Environmental Statistics Tutor

Tutored 1st, 2nd and 3rd year classes in statistical theory and lead practical classes using R and other statistical packages.

Education()

2014, Machine Learning, Coursea (Stanford University)

2009 - 2013, PhD, University of Sydney

Thesis Title: The optimisation of water quality sampling and load estimation

2004 - 2008, Bachelor Land and Water Science (First Class Hons), University of Sydney

Software_and_programming_languages()

- Software: MS Office, ArcGIS, GRASS, QGIS, Latex, Genstat, JMP
- Programming Languages: R, C++, Python and experience with: Java, Fortran, Matlab, SQL

R_packages()

ggsnippets: Additional functions for the `ggplot2` package.

TSAgg: Time series aggregation for incomplete time series data.

BomDataRipper: A package that provides the ability to download weather data from the Australian Bureau of Meteorology website.

WIDataRipper: This package provides the ability to obtain data from the NSW government water information website from within R.

hydroEFS: Implemented in R and C++, this package provides the ability to find and summarise streamflow events.

geoRExtended: This package provides additional optimising methods for the likelihood function and also provides additional functions.

`Selected_papers_and_conferences()`

Karunaratne, SB, Bishop, TFA, Lessels, JS, Baldock, JA and Odeh, IOA (2014) **A space-time observation system for soil organic carbon**, Soil Research, accepted, in press

Lessels, JS and Bishop, TFA (2013) **Estimating water quality using linear mixed models with stream discharge and turbidity**, Journal of Hydrology, (498) 13-22

Lessels, JS and Bishop, TFA (2013) **Estimating the effect of sample size on the uncertainty of mean total phosphorus using historical data**, Hydrological Processes, Accepted, in press

Using isotopes to investigate hydrological flow pathways and sources in a remote Arctic catchment, presented at the European Geophysical Union, General Assembly, 2014

Applying geospatial techniques to temporal data, presented at useR!, 2011

Generalised linear mixed models for predicting the probability of exceeding water quality guidelines, presented at the European Geophysical Union, General Assembly, 2011

`Interests_and_hobbies()`

Electronics: I like applying my coding knowledge with electronics. I have built several sensors which I have used to for my scientific research

Hillwalking: I like the challenge of completing long hikes, e. g. in New Zealand, Norway and Australia

Mountain biking: I enjoy mountain biking. I have ridden in Scotland, Switzerland and Australia

`Referees()`

Assoc. Prof. Thomas Bishop

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Prof. Philip Wookey

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