

Oliver Marc Angélil



About

Nationality: Switzerland, South Africa
Date of birth: 23.09.1986

Communication

English (native)
German (level B1)

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GitHub: github.com/oliverangelil

Profile

Data-driven scientist with 8+ years of practical experience in programming and statistics. Strong technical background in Python (scikit-learn, pandas) to gain insights into large multi-dimensional data through the application of a range of statistical inference and machine learning methods. Experience in a business environment managing stakeholder expectations and delivering timely results. I am seeking a challenging technical position that leverages my statistical/coding background and problem solving skills.

Work Experience

- | | | |
|-----------------|---|-----------------------|
| 08.2018–present | Senior Data Scientist | Credit Suisse, Zurich |
| | Used Pyspark and Palantir software to develop pipelines and models to surface populations of clients that pose risk to the bank. Insights from analyses were presented to stakeholders across the bank, with the ultimate goal of reducing regulatory risk. | |
| 03.2015–10.2018 | Ph.D. in Climate Science | UNSW, Sydney |
| | Statistical learning methods were used to improve the prediction skill of means and extremes by weighting climate models in order to best explain a response variable of interest. The weighted subsets were then used to attribute the probabilities of extreme weather events to anthropogenic greenhouse gas emissions. Results were presented at a number of international conferences. | |
| 06.2014–02.2015 | Research Scientist | LBNL, Berkeley |
| | Used Extreme Value Theory to better resolve the statistics (e.g. exceedance probabilities, return periods) of extreme weather events. | |

Technical Skills

- Data Science: Python (scikit-learn, scipy, pandas, matplotlib); MATLAB; R
- Data Engineering / Software Development: Pyspark; git; bash; unix; SQL; automation; unit testing
- Servers and Automation: In my spare time I tinker with my home-built server that hosts my personal website [link] which uses cronjobs to automate the execution of Python and bash scripts that scrape data from the web and update information displayed on the site.

Education

2015–2018	Ph.D. candidate	UNSW, Sydney
	Thesis: <i>Uncertainty around probabilistic event attribution statements for extreme weather events.</i>	
	Awarded on 17.10.2018.	
	Coursera: Machine Learning by Andrew Ng	Online
	Stanford: Statistical Learning by T. Hastie and R. Tibshirani	Online
2011–2013	M.Sc. in Atmospheric and Climate Science	ETHZ, Zurich
	Thesis: <i>Spatial and temporal influences on human attribution to extreme weather risk: a global study</i>	
	Grade: 5.15/6	
2010	Honours in Atmospheric Science	UCT, Cape Town
	Grade: 74/100	

Academic Awards

2015–2018	Australian Research Training Program Scholarship	Australian Government
	AUD \$25,849 per annum to cover living costs during Ph.D. programme. Awarded to 30 students/year	
2015–2018	Top up scholarship	UNSW Sydney
	AUD \$5000 per annum from the Climate Change Research Center	

Publications

I have (co)authored 24 papers in distinguished scientific journals. Find the full list [\[here\]](#). Recent selected papers:

- **Angélil, O.**, D. A. Stone, S. Perkins-Kirkpatrick, L. Alexander, M. Wehner, H. Shiogama, P. Wolski, A. Ciavarella, N. Christidis (2018), "On the nonlinearity of spatial scales in extreme weather attribution statements." *Climate Dynamics*. [\[link\]](#)
- Herger, N., **O. Angélil**, G. Abramowitz, M. Donat, D. A. Stone, K. Lehmann (2018), "Calibrating climate model ensembles for assessing extremes in a changing climate" *Journal of Geophysical Research*. [\[link\]](#)
- **Angélil, O.**, D. A. Stone, M. Wehner, C. J. Paciorek, H. Krishnan, W. Collins (2017), "An independent assessment of anthropogenic attribution statements for recent extreme temperature and rainfall events." *Journal of Climate*. [\[link\]](#)

Referees

Dr. Dáithí Stone

Research Scientist at NIWA

Supervisor during my M.Sc. and Ph.D. degrees at ETH, Zurich & UNSW, Sydney respectively

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Markus Donat

Research Scientist at BSC

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More references upon request