Oliver Angélil

Senior Data Scientist • Machine Learning • Data Engineering • Natural Language Processing

About

Email: oliver.m.angelil@gmail.com
Nationalities: Switzerland, South Africa
Languages: English (native), German (B2)

Website: https://oliverangelil.github.io/
LinkedIn: https://www.linkedin.com/in/oliver-angelil/
GitHub: https://github.com/oliverangelil

Profile

Data-driven scientist with 10+ years of practical experience in programming and statistics. Strong technical background in Python (scikit-learn, pandas) to gain insights into large volumes of 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.

Work Experience

2021 — **Data Science Volunteer at Ishango (2-months unpaid leave from Credit Suisse)** — Kigali
Volunteered at a Data Science school in East Africa, supervising 14 students working on real world data science projects in collaboration with 7 different global companies.

2018 - now — **Senior Data Scientist at 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. After two years started managing and mentoring a small team of Data Scientists.

2015 - 2018 — **PhD in Climate Science at 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.

2014 - 2015 — **Research Scientist at LBNL** — Berkeley
Used Extreme Value Theory to better resolve the statistics (e.g. exceedance probabilities, return periods) of extreme weather events. Published work in Journal of Climate.

Technical Skills

Data Science:	Machine Learning; Deep Learning; Data Visualization; NLP
Data Engineering:	PySpark; git; bash; unix; SQL; automation; unit testing; regression testing
Languages:	Python (advanced); MATLAB (intermediate); R (intermediate); bash (intermediate)
Libraries:	pandas; spacy; gensim; HuggingFace; scikit-learn; tensor-flow
Documentation:	MS Office Suite; Latex; Jupyter Book; Markdown
Servers and Automation:	Home-built server running FreeBSD for data backups and website hosting

Education

2015 - 2018	**Ph.D at UNSW.** candidate (Climate Change Research Centre) Thesis: *Uncertainty around probabilistic event attribution statements for extreme weather events.*	Sydney
	Coursera: Machine Learning by Andrew Ng	Online
	Stanford: Statistical Learning by T. Hastie and R. Tibshirani	Online
2013 - 2015	**M.Sc. at ETHZ** in Atmospheric and Climate Science Thesis: *Spatial and temporal influences on human attribution to extreme weather risk: a global study* Grade: 5.15 out of 6	Zurich
2010	**Honors at UCT** in Atmospheric Science Grade: 74/100	Cape Town

Awards

2015 - 2018	**Australian Research Training Programme Scholarship** Covers the full cost of tuition fees during the Ph.D. programme (AUD $117,360) and provides a living allowance valued at AUD $77,547 in total. Awarded to 30 students / year.	Sydney
2015 - 2018	**CCRC scholarship** AUD $15,000 in total from the Climate Change Research Centre, UNSW	Sydney

Publications

I have (co)authored 24 papers in distinguished scientific journals. Find the full list here:
https://oliverangelil.github.io/publications/

Referees

Daithi 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.
Supervisor during my Ph.D. degree at UNSW, Sydney
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