

Emily Muller

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Irish Nationality, British Resident, Fluent English.

School

- 2019 - 2022 **PhD**, *Imperial College London*, School of Public Health, UK.
- 2016 - 2017 **MSc Mathematical Science**, *African Institute for Mathematical Sciences (AIMS)*, South Africa, '*A Dynamic Approach for Longitudinal Network Analysis: the Stochastic Actor-Oriented Model*'.
Cum Laude (awarded by Stellenbosch University).
- 2010 - 2014 **BSc Mathematics**, *University of Southampton*, UK.
First Class Honours.
- 2006 - 2010 **A-Levels**, *The Charter School*, UK.
Mathematics (A*), Chemistry (A*), Physics (A), Biology (A), Further Math AS-level (A).

Employment

- 2019 **Research Assistant in Machine Learning**, *Imperial College London*, UK.
Pathways to Healthy Equitable Cities.
- 2018 **Student Placement**, *Modelling and Digital Sciences, CSIR*, Pretoria, South Africa.
Data driven approach to quantifying wind resource in South Africa.
- 2015 - 2016 **Junior Analyst**, *Munro Forensic Actuaries*, Cape Town, South Africa.
Calculating compensation for RAF claims with assumptions of discounting, mortality etc.
- 2012 - 2013 **Actuarial Placement Student**, *Ageas Insurance Limited*, Southampton, UK.
Reserve forecasting based on historic trends.

Research Activities

- 2020 **Publication**. Clark et al. "High-resolution spatiotemporal measurement of air and environmental noise pollution in Sub-Saharan African cities: Pathways to Equitable Health Cities Study protocol for Accra, Ghana", *BMJ Open*, **10:8** (2020).
- 2019 **Publication**. Comminos. A, Muller. E, Mutung'u. G. "Artificial intelligence for sustainable human development". *Global Information Society Watch*, **19** (2019) 47 - 52.
- 2019 **Organised AI & Fairness Workshop**. The Deep Learning Indaba, Nairobi, Kenya.
- 2019 **Poster presentation**. European Workshop on Cognitive Neuropsychology, Italy.
- 2019 **Publication**. Muller. E, Shock. J, Bender. A, Kleeberger. J, Hogen. T, Rosenfelder. M, Bah. B, Lopez-Rolon. A. "Outcome prediction with serial neuron-specific enolase and machine learning in anoxic-ischaemic disorders of consciousness". *Computers in Biology and Medicine*, **107** (2019) 145 - 152.
- 2018 **Attended** Computational Neuroscience Imbizo, Cape Town, South Africa.

- 2018 **Hosted Reinforcement Learning Tutorial.** Data Science Workshop, AIMS, Cape Town, South Africa.
- 2017 **Presented** Structured MSc thesis at Probabilistic and Statistical Methods for Networks Summer School at Berlin Math School, Germany.

References

1. **Prof Majid Ezzati**, *Chair in Global Environmental Health School of Public Health*, Imperial College London.
London, UK.
Email: majid.ezzati@imperial.ac.uk.
2. **Prof Jeff Sanders**, *Academic Director*, AIMS.
Cape Town, South Africa.
Email: jsanders@aims.ac.za
3. **Dr Vukosi Marivate**, *Senior Lecturer*, *University of Pretoria*.
Pretoria, South Africa.
Email: vukosi.marivate@cs.up.ac.za