

Christopher Arderne

curriculum vitae

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Experience

- 2017–2018 **Energy Analyst**, *World Bank Group*, Energy Strategy and Operations.
Jan— Design and manage technical assistance program for electricity access projects. Developed strategy
USA for the creation of data and tools critical to mini-grid developers in Tanzania.
- 2016 **Research Engineer**, *KTH Royal Institute of Technology*, Division of Energy Systems Analysis.
Jan–Dec Developed high-resolution geospatial toolkit for determining lowest-cost pathways to universal electricity
Sweden access. Conducted climate, land, energy and water modelling for various developing countries.

Education

- 2014–2016 **Masters of Sustainable Energy Engineering**, *KTH Royal Institute of Technology*,
Sweden *Average grade: A.*
Recipient of Swedish Institute study scholarship for fully supported Masters degree
- 2010–2013 **Bachelor of Engineering (Mechanical)**, *Stellenbosch University*, *cum laude*
South Africa *Average grade: A.*

Publications

- 2017 Lighting the World: the first application of an open source, spatial electrification tool (OnSSET) on Sub-Saharan Africa. *Environmental Research Letters*
- 2017 Data as an Enabler in the Off-Grid Sector: Focus on Tanzania. *World Bank Live Wire*

Skills

- Languages Native **English**, proficient Afrikaans, Spanish and Swedish
- Software Experienced with Microsoft Office, Matlab, **ArcGIS**, QGIS, LEAP, WEAP, Osemosys
- Programming Very experienced with **Python** and Java, experienced with R and C/C++

Honours

- 2017 Awarded grant from World Bank Group Youth Innovation Fund for innovative new project
- 2016 Awarded annual Supertramp award from Mountain Club SA for promising young explorers
- 2013 Top 2% of graduating Mechanical Engineers
- 2009 Top high school student in eight subjects; top provincial mathematics student

Profile

- 2016 Weekly English, maths and life skills lessons at a refugee centre in Stockholm
- 2014-2016 Summited Huayna Potosí (6088 m), Pico de Orizaba (5634 m) and Mt Kazbek (5033 m)
- 2013-2014 Twice top 20% of Hout Bay Trail Challenge, twice top 1% of group in Argus Cycle Tour

References

- P Bardouille Senior Operations Officer, International Finance Corporation, pbardouille@ifc.org
- Yann Tanvez Energy specialist, World Bank, ytanvez@worldbank.org
- Mark Howells Division head, Royal Institute of Technology, mark.howells@energy.kth.se