DAVID A. OLLEY

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PERSONAL STATEMENT

I am a highly motivated young professional with a keen interest in the areas of energy economics, energy systems, and climate policy. I am passionate about achieving a fundamental understanding of issues facing the energy sector, to find workable and realistic solutions.

Core values

- Dedicated to providing an outcomes and solutions based approach
- Organisation, preparedness, and efficiency, both on a personal and interpersonal level
- Consistent and deliberate self-improvement, learning from both successes and failures
- Fostering strong and meaningful professional relationships
- Acquiring knowledge and expertise of policy considerations in the energy, minerals, and related sectors.

Programming languages/software experience

- Proficient: R, Python, Power World, VBA/Excel, Power Query, MySQL, LaTeX, MS Word
- Experienced: GAMS, HOMER, SAM, Matlab
- Limited experience: C++

EDUCATION

Master of Energy Studies
University of Queensland, Brisbane, Australia, graduated July 2016, GPA 6.0

Bachelor of Science (Hons) – Physics
University of Queensland, Brisbane, Australia, graduated June 2013

Bachelor of Science – Physics and Chemistry
University of Queensland, Brisbane, Australia, graduated December 2011

PROJECTS

Master's Thesis – Potsdam Institute for Climate Impact Research (PIK)
March to June 2016

- Social welfare optimisation model of oil markets.
- Programmed in GAMS and R
- Gained knowledge about natural resource economics, computer modelling, supply and demand side dynamics of fossil fuel markets.

EXPERIENCE

Senior Analyst – Aurora Energy Research, Berlin

January 2020 to present

- Modelling and analysis skills, based mainly in the European energy market
- Developed long term view of many different decarbonisation pathways

Senior Consultant – Electricity Market Modelling (EMM) team, Ernst & Young (EY)[1]

November 2016 to December 2019

- Modelling and forecasting wholesale market prices, network losses, and network congestion in the National Electricity Market (NEM)
- Interfaced with clients, developing client management skills
- Developed significant internal capabilities for the modelling of electricity network congestion and generation curtailment risk
- Currently managing my own projects (developing project management skills)

Research Assistant – Global Change Institute (GCI), University of Queensland

August to November 2016

- Input-Output (IO) matrix analysis of greenhouse gas emissions
- Experience in processing large data sets from IEA and other sources

Pollinate Energy Fellowship

December 2015

- Pollinate Energy works with urban slums in India
- Performed business development and market research and analysis
- Strengthened interpersonal relationship skills, working across language and cultural divides

Data Scientist – Deep Dive Data Solutions

September 2014 to June 2015

- Founding member of small start-up
- Developed data analysis products in R and performed statistical analysis
- Project has since stagnated
- Gained insight into small business concerns, regulation, business environment of south east Queensland

Laboratory Assistant – National Measurement Institute

April to June 2013, three month fixed contract

- Collated results and certified instruments provided by clients
- Gained advanced experience in Microsoft Excel and Access
- Experienced working with government departments

Honours Project – Centre for Organic Photonics and Electronics (COPE)

February to November 2012

[1] Formerly ROAM Consulting

- Fabricated, and performed advanced experimentation on several batches of organic solar cells
- Completely automated the testing process, and performed data analysis in Matlab.
- Developed abilities in long term project planning, intermediate milestones, and managing one large project in conjunction with coursework (time management skills)

Other Scientific Projects

- Research Assistant position at COPE
- Final year honours project – modelling of Bose Einstein Condensates
- Two summer research projects at COPE, results published in Chemistry of Materials

PUBLICATIONS

Explosive Sensing with Fluorescent Dendrimers: The Role of Collisional Quenching *Chem. Mater*., 2011, 23 (3), pp 789-794
DOI: 10.1021/cm1020355

PROFESSIONAL DEVELOPMENT

Young Australians in International Affairs Future Leaders Series on Climate Change
May 2015

- Attended a series of lectures by leading academics on international aspects of climate change
- Drafted a policy response document as part of a team

REFEREES

Referees available upon request.