GRACE COLVERD gb669@cam.ac.uk, +44 7730887757

ACADEMIC EXPERIENCE

University of Cambridge, Fitzwilliam College

PhD: Dept of Engineering: A machine learning approach to improving retrofit planning in the UK.

MRes: Applications of Artificial Intelligence to Environmental Risk

Masters thesis: A Deep Learning Approach to Post-Hurricane Automatic Damage Classification: trained convolutional neural network to automatically assess damage classification via satellite data, and generated prioritisation maps to be used by aid agencies

Awards

- Fitzwilliam Senior Scholarship for academic achievement
- Fitzwilliam Graduate Tutors Prize for academic achievement

University of Oxford, The Queen's College

MPhysPhil, BSc-Masters in Physics and Philosophy

 <u>Masters Thesis</u>: Gauge Theories, Polytopes and Hilbert Series. Calculated the volume of Sasaki-Einstein manifolds of 2 interior point polytopes using AdS/CFT correspondence

Awards

- The John Thresher Prize for best master's project in Particle and Nuclear Physics
- The Queen's College Junior Scholarship for academic achievement
- The Queen's College Exhibition Scholarship for academic achievement

Publications

• Quiver Gauge Theories: Beyond Reflexivity, Journal of High Energy Physics, Volume 2020, Article number: 161 (2020)

PROFESSIONAL EXPERIENCE

Eion Carbon

Consulting data scientist

- Data-driven analysis to support MRV of Eion's enhanced weathering product for agriculture simulating sampling of fields and creating methods to verify rock application
- Leakage analysis on river network and ocean modelling to understand downstream effects of enhanced weathering process
- Built web application to visualise the downstream effects of rock application downstream.eioncarbon.com

Mastercard London

Associate Managing Consultant

- Managing multiple teams across geographies to deliver analytical consulting projects, with a focus on embedding testing culture and data-based decision making at large consumer-facing businesses across Europe
- Working with senior stakeholders to define long term testing goals, and then supporting implementation
- ٠ Charity lead - partnering with youth social mobility charity Envision to deliver mentoring to local children

Applied Predictive Technologies

Business Consultant

 Analysed client business experiments using SQL, Python, combining technical skills with business understanding to generate actionable recommendations for clients

Skills: Python, SQL, AWS, Streamlit, Django, Microsoft Suite

2 yrs

1.5 yrs

Distinction

First Class

1yrs+