ZACHARY DANIEL GAEDDERT

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Citizenship: United Kingdom, United States
LinkedIn | GitHub Data Science Portfolio

Experience

Emitwise — London, United Kingdom

Senior Carbon Accounting Lead   **April 2023 – Present**

- Client lead on carbon accounting strategy for three multinationals in manufacturing, logistics, and real estate. Oversee end-to-end development of GHG account, stakeholder management, and post-delivery consulting.
- Principal climate policy and science expert driving GHG accounting methodology/strategy that feeds into software product. For example, designed back end of input-output scenario modelling tool enabling customers to model GHG impact of reduction initiatives in product.
- Fully automated data collection process with VBA to reduce analyst hours by over 80%.

Carbon Accounting Lead   **September 2022 – March 2023**

Carbon Accounting Analyst   **January 2022 – August 2022**

New York State Energy Research & Development Authority (NYSERDA) — New York, NY

Intern, Building Electrification (part-time during Master's)   **May 2020 – December 2021**

- Spearheaded development of baseline heating and cooling market characterization as part of the $230m NYS Clean Heat Plan. Employed census, survey, and audit data to segment state's residential and commercial building sectors and identify demand-side opportunities, barriers, and policy solutions for heat pump uptake.
- Presented data-driven market analysis to key stakeholders on weekly interagency calls with New York's Department of Public Service (DPS), including directors of both organizations, assessing impact of state's regulatory framework on heat pump deployment. Research facilitated key changes in incentive structures.

Wood Mackenzie Power & Renewables — New York, NY

Student Consultant (part-time during Master's)   **January 2021 – June 2021**

- Co-authored WoodMac's Lessons Learned from V2X Projects of Electric Bus Fleets report. Managed research for transit bus use case – using London as a case study, research involved interviews and data collection from senior stakeholders at SSE, UKPN, and Origami to determine technical and commercial viability.

Vivid Economics (now McKinsey & Company) — London, United Kingdom

Analyst, Energy & Industry   **June 2018 – December 2019**

- Co-authored and published reports with the International Renewable Energy Agency (IRENA), World Wildlife Fund (WWF), and the Inter-American Development Bank (IDB).
- Engaged extensively with clients to drive project methodology. For example, independently designed methodology for conducting lifecycle assessments for major European industry body of an energy-intensive sector on a project that client used to lobby to the European Commission to impact regulatory outcomes.

Education

Columbia University in the City of New York, School of International and Public Affairs   **December 2021**
- Master of Public Administration (MPA), Energy and Environment | Data Science. GPA: 3.89
- Final semester coursework: Renewable Energy Project Finance Modeling (A), Infrastructure Cost-Benefit Analysis (A), Carbon Pricing (A), Applied Econometrics (A).

University of St Andrews   **June 2016**
- BA (Honours) International Relations with Modern Languages (Russian and Persian).   Fife, Scotland
- First-class honours (GPA equivalent ≈ 3.8) with distinction in spoken Russian and Persian.

Additional Information

- Data Science: Strong skills in R (interactive app building/reactive coding – see ShinyApps here and here, advanced geospatial analysis, basic data automation). Basic knowledge of Python and JavaScript.
- Advanced Microsoft Excel (strong VBA, macros, financial modeling, database management, pivot tables).
- Fluent Russian speaker with official Russian State certification of professional working fluency.
- Avid traveler (have visited every former Soviet country), football (soccer) enthusiast, and cat owner.