

Pedro de Vasconcellos Oporto

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ENERGY AND ENVIRONMENTAL ECONOMICS, INC.

Boston, MA

Consultant

Pedro de Vasconcellos Oporto contributes capacity expansion and resource adequacy modeling to E3 resource planning projects in the Northeast. He has supported clients in New York, New England, and the Canadian eastern provinces. Mr. Oporto came to E3 after earning a Master's in Technology and Policy from MIT. There his research focused on climate and energy, focusing on the role of investors. Before arriving at MIT, Mr. Oporto worked in data science. In addition to his M.S., Mr. Oporto earned a B.S. in Computer Science and Mechanical Engineering from Worcester Polytechnic Institute.

Select E3 projects include:

Massachusetts Clean Energy Center, Energy Storage Market Update and Analysis, 2023. Supporting several areas of project including asset valuation analysis, capacity expansion modeling and analysis, reliability analysis, and storage analysis of future technologies as part of a broad E3 analysis of the future of energy storage in Massachusetts.

Confidential Northeast Client, Climate Impacts Analysis, 2022-2023. Completed initial temperature analysis and prepared inputs for RESHAPE and PATHWAYS models for an E3 project examining the impacts of a changing climate on a northeastern state's climate goals. Has also led runs of E3's RESOLVE model, supported capacity expansion modeling.

Confidential Canadian Client, Atlantic Loop Analysis, 2022 – 2023. Primary technical analyst leading RESOLVE modeling for an E3 project examining how the Atlantic Loop would be utilized and the impacts its development would have on Canada's eastern provinces. The project analyzes the displaced capacity and emissions savings associated with adding a transmission line.

MIT SLOAN SUSTAINABILITY INITIATIVE Cambridge, MA

Research Assistant

August 2020 – June 2022

- Investigated representative cases of investors taking action to mitigate climate change.
- Conducted semi-structured interviews with portfolio and investment managers in the US, Europe, and Asia.
- Examined evolution of net-zero commitments, financial disclosures, and sustainability reports.
- Evaluated the impact of investor actions toward net-zero portfolios on industry and building energy efficiency using system dynamics modeling.
- Led climate solutions workshops with retail and institutional investors using En-ROADS.

VOLORIDGE INVESTMENT MANAGEMENT

Research Analyst Intern, Climate Strategies

Jupiter, FL

June 2021 – August 2021

- Mapped scope 3 emissions for manufacturers of passenger and commercial vehicles by country based on sales, retirement rates, estimated driving behavior, and fuel consumption.
- Led data integration from government reports, investment banking, industry roadmaps, and retail sales analysis so that a similar process could be implemented for other industries.

TRACELINK

Software Engineering Intern

North Reading, MA
June 2020 – August 2020

- Programmed new suite of applications for pharmaceutical and supply chain customers.
- Built a notifications app for customers in varied preferred channels and security frameworks.
- Performed integration and unit tests to validate the app with production data and system architecture context.

SMASHFLY TECHNOLOGIES

Data Engineering Intern

Concord, MA
May 2018 – August 2019

- Designed cloud data storage system for documents to reduce infrastructure costs by over 80%.
- Implemented the software backend and data model of a customer-facing application.
- Modeled customer activity data using decision tree classifiers and timewise data augmentation.

Education

Massachusetts Institute of Technology
M.S., Technology and Policy

Cambridge, MA
May 2022

Worcester Polytechnic Institute
B.S., Computer Science and Mechanical Engineering

Worcester, MA
May 2020