JAMES HUBERT MERRICK

http://geal.ie

Professional Experience	
Geal Research , Offaly, Ireland & San Francisco, California Data science research and consulting.	February 2018–Present
 Commercial: Electric vehicle charging station siting (Stable Auto, San Francisco CA tricity strategic planning (Bord na Móna, Ireland), machine fault prediction (Eastway Ireland). Software development: MOS, software to automate deployment of optimization mode Research: Solution of large-scale energy and economic optimization problems (EPR Alto CA), ongoing research collaborations with colleagues at Stanford University. 	y Tech, lels.
Electric Power Research Institute (EPRI) , Palo Alto, California Developed a large scale, state of the art, optimization model of U.S. electricity system a key analysis tool of national and regional energy and climate policy options. Expe extracting associated insights for stakeholders and decision makers.	
IE Consulting Engineers, Carlow, Ireland	August 2006–August 2008
Statistical and structural modeling of river flows to inform civil engineering design.	
Agriculture , Offaly, Ireland Strategy and engineering design for family dairy farm business.	Ongoing
Education	
Stanford University, Stanford, California	October 2013 - January 2018
 PhD in Management Science and Engineering Thesis Title: Advancing Energy and Climate Planning Models: Optimization Methods, able Renewables and Smart Grids Papers from dissertation published in economics, engineering and operations research joint 	
Massachusetts Institute of Technology (MIT), Cambridge, Massachusetts SM in Electrical Engineering and Computer Science SM in Technology and Policy Cumulative MIT GPA: 5.0/5.0	September 2008 - August 2010

Selected Skills and Interests

Publications: Author of a range of publications in peer-reviewed academic journals, applying optimization and statistical methods to energy, climate, and space questions.

Coursework: Graduate coursework across MIT and Stanford in optimization, statistics, probability, stochastic modeling, machine learning, mining massive datasets, economics, policy, power systems. Weekly seminars at the frontiers of data, learning, optimization, and energy systems.

Teaching: [Stanford University] Introduction to Optimization (accelerated), Systems Modeling for Energy and Climate Policy Analysis.

Awards: UCD Presidential Scholarship, MIT TPP Letter of Recognition of Academic Performance, EPRI Performance Recognition Awards (x3), Irish Echo newspaper 40 under 40 2018, UCD Civil Engineering Wall of Fame 2018.

Languages: English, Gaeilge (Irish).

Selected programming languages and software: Python, Julia, GAMS, MATLAB, MPSGE, R, shell scripting.

Selected interests: Hurling, history, artificial intelligence.