

Ian Cook

Data Scientist, Social Science Researcher

Pittsburgh, PA - Email me on Indeed: [indeed.com/r/Ian-Cook/29a811f03689ae33](https://www.indeed.com/r/Ian-Cook/29a811f03689ae33)

Willing to relocate: Anywhere

Authorized to work in the US for any employer

WORK EXPERIENCE

Data Scientist

Highmark Health - Pittsburgh, PA - June 2016 to Present

Predictive analysis for member clinical outcomes and health care utilization. Developing machine-learning solutions for treatments, interventions, and evaluation. Projects include NLP (information extraction from clinical notes), risk scoring, predictive models for designing interventions and evaluating medical innovation, instruction in conducting data analysis in distributed environment via Python.

Quantitative Policy Analyst

RAND Corporation - Pittsburgh, PA - 2007 to Present

Design, budget, and execute research on large-scale national security programs. Manage research process and teams through initiation, conduct, client delivery, and final publication of findings. Communicate analysis and findings senior policymaking leadership, including mixed expert/non-expert audiences

Methods applied:

- Sophisticated economic & cost-modeling for billion-dollar programs
- Regression-based statistical analysis
- Simulation modeling (Python, Matlab, VisualBasic)

Data Scientist

kWantera - Pittsburgh, PA - January 2016 to June 2016

Responsibilities

Develop and deploy production-scale machine learning algorithms (time-series prediction, support vector classification, random forest models, Bayesian, ensemble methods, etc.) that translate energy market movements into business strategies. Assess model viability and performance at hundreds of unique financial trading points. Translate market rules into model features to reflect deregulated nature of energy industry. Apply results of modeling to solve customer needs in scheduling energy consumption/production. Assess scope and size of market opportunities for kWantera products. Engage with customers to translate model results into effective decisions.

Research Fellow

LMI Government Consulting (Logistics Management Inc) - Washington, DC - 2004 to 2007

Designed and conducted quantitative analysis of policy options for clients, including NASA, U.S. Air Force, and the Office of the Secretary of Defense.

Methods Applied:

- Agent-based modeling & simulation
- Probabilistic queuing models & combinatorial optimization

Content Strategist

iXL, Inc - Chicago, IL - 2000 to 2002

Managed development teams building product-oriented websites for major consumer brands. Designed and implemented client-based content management systems that handled document production and online delivery.

EDUCATION

Ph.D. in Political Science

University of Pittsburgh
2009 to 2015

Master of Public Policy in policy analysis methods

The Harris School of Public Policy, University of Chicago
2002 to 2004

Bachelor of Arts in English & Political Science

College of Wooster
1993 to 1997

SKILLS

LaTeX (8 years), Python (2 years), Statistical Analysis (10+ years), R (2 years), Stata (10+ years), Game Theory (6 years), Experiments (5 years), Research (10+ years), Research Design (9 years), Hypothesis Testing (8 years)

LINKS

<http://www.ianpcook.com>