

Peter Rasmussen

<https://www.pgr-me.github.io>
peter.gray.rasmussen@gmail.com | 202.644.1575 | petergray333 (skype)

SKILLS

PROGRAMMING

Python and iPython Notebook
SQL
JavaScript (D3.js), HTML, and CSS

MACHINE LEARNING

Regression
Support Vector Machines
Naive Bayes
K-Nearest Neighbors
Decision Trees
Cluster Analyses
Natural Language Processing

SOFTWARE

PostgreSQL and PostGIS
Amazon Web Services
Spark and Hadoop
Git and Github
MongoDB
QGIS
CartoDB
MapBox

EDUCATION

DATA SCIENCE BOOTCAMP

METIS

Expected June 2016 | New York, NY

MS, INDUSTRIAL ENGINEERING

UNIVERSITY OF MASSACHUSETTS

February 2012 | Amherst, MA

Thesis: The Economic Impacts of

Technical Change in Carbon Capture

BS, CHEMICAL ENGINEERING

UNIVERSITY OF IOWA

May 2006 | Iowa City, IA

Graduated with Honors

LINKS

Github:// [pgr_me](#)

LinkedIn:// [petergrayrasmussen](#)

Twitter:// [@pgr_me](#)

EXPERIENCE

METIS | DATA SCIENTIST

Apr 2016 – Jun 2016 | New York, NY

- Built **explanatory linear regression model** for an **NYC startup** to identify the types of people who are the most active microlenders
- Scraped, cleaned, and assimilated movie box office data as inputs to **box office revenue prediction model**
- **Visualized univariate and multivariate clusters** of water usage, price, income, and other factors in the US using Jenks and K-Means algorithms

HIP CONSULT | ANALYST

Feb 2013 – Mar 2016 | Washington, DC

- **Fiber Optic Infrastructure Web Mapping Application**
 - Led product development of SAAS infrastructure mapping prototype, **InfraNav** and developed custom **maps** to market product's capabilities
 - Managed GIS team tasked with assimilating and mapping approximately 350,000 km of fiber optic infrastructure for 42 countries across Africa
- **Mobile Financial Commerce (MFC) Market Analyses**
 - Led quantitative analysis to develop value propositions for a multinational company seeking to enter MFC markets in several African markets
 - Built financial model to assess market potential and expected cash flows of a Tanzanian mobile payments startup
 - Authored market-sizing and forecasting section of a commercial **report** on characteristics, forecasts, and trends in MFC for several African markets

CHASE CONSTRUCTION LIMITED | PROJECT MANAGER

Oct 2011 – Jul 2012 | Nairobi, Kenya

- Led research team in analyzing investments in renewable energy and ag technologies, from conducting fieldwork in Nairobi and Mogadishu to market research, engineering design, & financial evaluation of potential projects
- Drove business development by writing grant proposals to international organizations and delivering presentations to pitch to potential funders
- Co-organized first **TEDxMogadishu**, a series of talks given by Somalis on the "rebirth" of Mogadishu, including the resurgence of the private sector

ENGINEERS WITHOUT BORDERS | PROGRAM MANAGER

Jun 2010 – May 2011 | Amherst, MA

- Managed EWB-UMass Kenya program to improve water quality in western Kenya for a rural community of approximately 10,000

UNIVERSITY OF MASSACHUSETTS | RESEARCH ASSISTANT

Aug 2009 – May 2011 | Amherst, MA

- Modeled long-term economic impacts of technical change in carbon capture (CC) given a greenhouse gas emissions policy
- Conducted sensitivity analyses of key performance drivers of CC costs to simulate the impact of technical change on CC cost

ENVIRONMENTAL RESOURCES MANAGEMENT | STAFF ENGINEER

Jul 2006 – Aug 2009 | New Orleans, LA

- Managed environmental consulting projects across multiple sectors, including energy and manufacturing