

# Peter Rasmussen

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## 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

## SKILLS

### PROGRAMMING

#### Proficient

Python and iPython Notebook

PostgreSQL and PostGIS

Git and Github

#### Familiar

Amazon Web Services

Spark and Hadoop

MongoDB

D3.js, JavaScript, HTML, and CSS

### MACHINE LEARNING

#### Supervised

Regression

Support Vector Machines

Naive Bayes

K-Nearest Neighbors

Decision Trees

#### Unsupervised

Cluster Analyses

Natural Language Processing

## 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 – Apr 2016 | Washington, DC

- **Fiber Optic Infrastructure Web Mapping Application**
  - Led product development team in creating a software as a service infrastructure mapping prototype, **InfraNav**, including conceptualization and software development
  - Wrote SQL queries that dynamically calculate key analytical outputs, including the population living within a given radius of a subset of fiber
  - Managed GIS team tasked with assimilating and mapping approximately 350,000 km of fiber optic infrastructure for 42 countries across Africa
  - Developed workflows – including written data management / SQL, quality control, and administrative instructions – to structure activities of GIS team to maximize productivity
  - Trained junior team members on how to use GIS and other analytical software
  - Developed custom maps to market InfraNav's capabilities to prospective clients and to highlight firm's data visualization credentials in other industries, including in energy
- **Mobile Financial Commerce (MFC) Market Analyses**
  - Led quantitative analysis for development of value propositions for a multinational company interested in entering the mobile financial services industry in Sub-Saharan Africa
  - Conducted financial modeling to evaluate the expected cash flows of an Eastern African mobile payments startup
  - Authored the market-sizing and forecasting section of a commercial report for Mondato, a HIP Consult company: **MFS in Africa: Characteristics, Trends, and Forecasts (2015)**

### CHASE CONSTRUCTION LIMITED | PROJECT MANAGER

Oct 2011 – Jul 2012 | Nairobi, Kenya

- Led research team in analyzing investments in renewable energy and agricultural technologies, from conducting fieldwork in Nairobi and Mogadishu to market research, engineering design, and 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 **TEDxMogadishu**, a series of talks given by Somalis on the "rebirth" of Mogadishu, including the resurgence of the private sector