Francesca Elizabeth Gordon
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Summary Data scientist with expertise deriving actionable insights from many different types of data sets. Although my domain knowledge is in healthcare and genomics, my experience with predictive analytics and data architecture are easily translatable to any massive data set.

Skills

- **Programming:** SQL, R, Unix
- **Database:** AWS Redshift, Microsoft SQL Server
- **Predictive Analytics**: Machine learning, clustering, bioinformatics

Experience

DEVEXI, LLC August 2017 - present
Data Scientist

- Collaborating in the development and enhancement of new features within the company's platform including linear regression and user-driven sample sizes.
- Performing quality assurance including end-to-end tests and regression tests.
- Audited algorithms for epidemiological studies run within the company's platform for statistical validity and accurate usage of the underlying medical claims data
- Identified and helped implement a data architecture change central to the platform's operation using prior knowledge of the healthcare revenue cycle and medical claims data.
- Collaborated in the writing of a technical white paper describing the company's longitudinal health research platform and the underlying medical claims data set.

Ohio University, Athens OH February 2016 – August 2017
Applied Research Professor

- Collaborated in the production of the Health Policy Institute of Ohio 2017 Health Value Dashboard with improved ranking methodology and equity data compared to the 2014 edition.
- Developed a longitudinal database with curated Ohio Department of Education data and publicly available census tract, block, or county-level data.

Connance, Inc, Waltham, MA November 2013 – November 2015
Senior Data Scientist

- Collaborated in the development of a tool to identify individuals likely to have social barriers to healthcare access to help clients develop appropriate intervention strategies.
- Developed an analytic tool to predict the likelihood of a readmission within 60 days of an inpatient hospitalization for a FY2014 Readmissions Reduction Act qualifying condition based on socio-demographic and clinical factors.
- Coordinated the creation of a unified de-identified data asset from multiple client data sources containing personally identifying information.
- Collaborated in the development of an analytic tool to evaluate the likelihood a claim will be denied and the probability of success in collecting additional revenue from this claim following the initial action by the payer.

Excelimmune, Inc, Woburn, MA July 2012 – August 2013
Research Scientist

- Performed computational analysis of antibody sequences cloned from patients recovering from S.aureus infections to prioritize antibodies for functional analysis.
- Collaborated with software team to develop and test new features of proprietary software to streamline laboratory and data management processes.
- Supervised research assistants in subcloning antibodies selected from screening platform into expression vectors.

Tufts Medical Center, Boston, MA May 2010 – June 2012
Postdoctoral Fellow

- Used bioinformatic analysis of ChiP-Seq and RNA-Seq data in a mouse explant culture model to investigate mechanisms of cardiovascular-specific estrogen response.
- Collaborated in the development of bioinformatic software tools and analysis pipelines.
- Established monthly meeting for next generation sequencing users at Tufts Medical Center.

Massachusetts General Hospital, Boston, MA July 2007 – April 2010
Postdoctoral Fellow

- Used microarray analysis to identify possible mechanisms of pathogenesis of clinically non-functioning pituitary adenomas.
- Published results of this analysis and subsequent experimental validation

Education Ph.D, Molecular and Cellular Biology, Baylor College of Medicine, June 2007
B.A., Biology, Oberlin College, May 2000