

BRIAN GOODNESS

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EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY

Master of Information Management and Systems, Expected May 2017.

BERKELEY, CA

BEIJING FOREIGN STUDIES UNIVERSITY (北京外国语大学)

Chinese (Mandarin) language program, September 2009-June 2010.

BEIJING, CHINA

MASSACHUSETTS INSTITUTE OF TECHNOLOGY (M.I.T.)

Bachelor of Science in Economics, Graduated June 2006.

CAMBRIDGE, MA

Concentration in Chinese (Mandarin).

PROGRAMMING Stata (9 years), Python (4 years), PostgreSQL (3 years), JAVA, C++, JS/CSS/HTML. Includes Linux system configuration, git, bash scripting, web application frameworks (e.g., Flask, Django), application deployment and hosting (e.g., Heroku, AWS), frontend frameworks (e.g., ReactJS, Bootstrap, Highcharts), data analysis libraries (e.g., Pandas, Numpy, scikit-learn, NLTK), web scraping (e.g., BeautifulSoup) and deploying data-driven e-mail campaigns (e.g., Sendgrid).

WORK EXPERIENCE

INTEGRATED HEALTHCARE ASSOCIATION

Manager, Data & Analytics

Senior Data Analyst

Data Analyst

OAKLAND, CA

June 2013 – Nov. 2015

June 2012 - June 2013

May 2011 - June 2012

Managed the collection, cleaning, aggregation, reporting and analysis of clinical, hospital utilization, and cost data for the organization's statewide California Value Based pay-for-performance (P4P) program from over 200 medical groups and 11 health plan data contributors, used for incentive payment, awards recognition and public reporting purposes. Served as a key technical resource in the data sharing, collection, reporting, and analysis efforts for other grant-funded pilot and research projects.

- *Web analytics portal development.* Developed the technical blueprints to build a measurement and analytics platform, including database schema and architectural specifications. Created a new position, hired, and managed a web engineer. The secure portal provided reports to representatives from each participating organization on their medical group's performance on preventive and outcomes-based measures. The server returned on-the-fly aggregations across a medical group's populations for each health plan, as well as composite-based scores. The backend conducted statistical computations, while the frontend incorporated dashboards and visualizations such as peer-comparisons. The site also provided user, organizational, and contact management capabilities. Also wrote-up the site's mockup designs, site content, e-mail marketing communications, and served as the point-of-contact for users requiring help and/or access. Wrote, maintained, and updated scheduled jobs that provided backups and extracts from the website's online database for downstream analysis and other external communications outreach. Cleaned relevant data to fit the online system and/or incorporated into the database schema.

- *Program Operations.* Managed operations of the organization's incentive program and other performance measurement efforts. Programmed and quality-checked calculations that were distributed externally for payment or public reporting; coordinated program processes to ensure that health plan-provider crosswalks and other linkages were up-to-date and accurate; built and updated data submission file layout specifications for data contributors to provide results to the organization; conducted the appropriate calculations to identify annual top performer and most improved award recipients; worked with third-party vendors and data contributors to ensure that data submissions were accurate, complete, and on-time; served as the point-of-contact for external clients regarding program-related operations; wrote and published documentation to describe the methodologies relied upon for awards, payment, and public reporting; oriented new hires regarding program processes and trained them in statistical packages.

- *Research and program evaluation.* Responsible for investigating and statistically analyzing results to inform program decisions and evaluations. Presented to stakeholder committees comprised of business leaders and medical practitioners on analyses of the program's results for the purposes of evaluation and broader knowledge sharing. Used panel and cross-sectional data in order to study trends and impacts by various physician organization demographics, providing insight on key quality drivers which ultimately drives new incentive program policies and redesign.

- *Ad-hoc program design and modeling support.* Provided modeling and analytical support to a design committee for development and implementation of the organization's new *Value Based P4P* program. Presented projections of the potential impacts on participating health plans and physician organizations given various program design elements. Wrote python scripts to construct customized, dynamic plug-and-play Excel tools for health plans and physician organizations to evaluate various design aspects of a new statewide Value-Based healthcare incentive program by tying clinical outcomes and healthcare utilization to potential financial incentive impacts.

NERA ECONOMIC CONSULTING

Analyst

Associate Analyst

Research Associate

SAN FRANCISCO, CA

July – December 2008

July 2007 - July 2008

July 2006 - July 2007

Conducted various types of economic studies in a team including senior Ph.D. economists in order to produce formal expert opinions on behalf of Fortune 500 companies, top law firms, and government agencies in litigations in which antitrust, intellectual property infringement, or price-fixing conspiracies were alleged in a range of industries: hospitals, health insurance, medical devices, pharmaceuticals, computer memory chips, semiconductors, oil pipelay, and government. Also provided economic analysis to parties of potential mergers in preparation for approval filings and hearings before the U.S. Federal Trade Commission and the U.S. Department of Justice.

- Identified key data variables necessary to investigate hypotheses related to market definition, pricing behavior, patent infringement damages, and competition. Acquired confidential and public data from clients and third-party sources. Generated data statistics and econometric regression results for analyses.

- Reviewed and summarized court documents, affidavits, deposition transcripts, expert reports, market surveys, industry and analyst reports, and various other qualitative sources in order to gather specific litigation details or to glean useful insight of any unique characteristics or events that had impacted the relevant market. Surveyed economic literature to be relied upon in formulating hypotheses.

Presented findings to the team regularly. Trained and mentored new group hires of best work practices, and led formal training sessions on statistical programming (Stata).

RESEARCH

M.I.T., CENTER FOR REAL ESTATE - COMMERCIAL REAL ESTATE DATA LABORATORY (CREDL) CAMBRIDGE, MA

Research Assistant

June-August 2005

Worked on the creation of a nationwide transactions-based commercial real estate index. Handled a raw dataset of commercial property sales across the U.S. Tasks involved diagnosing the dataset for errors, extracting key financial indicators, and regression analysis.

M.I.T., DEPARTMENT OF ECONOMICS - EPA SUPERFUND PROJECT

CAMBRIDGE, MA

Research Assistant

June-August 2004

Study aimed to evaluate the effectiveness of the EPA SuperFund Project, by measuring the changes in real estate prices located nearby cleanup sites. Worked on the collection of location information on inactive EPA SuperFund project sites from the early 1980's, by conducting web research, and making phone contacts with regional EPA offices and old site managers.

RECOGNITION

Hack2Health "Innovations in Diabetes" Hackathon, October 2015, Winner (see

<http://news.berkeley.edu/2015/10/29/student-team-aims-for-app-to-help-diabetes-patients-dining-out/>)