

s. shelly jang

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experience

2014–pres. *Fellow*

Insight Data Science

- Created BeeHealthy-app.com, a web app to recommend crowd-verified treatments for common health conditions.
- Used python and BeautifulSoup to scrape thousands of health conditions, treatments and reported effectiveness from CureTogether.com, as well as PatientsLikeMe.com, storing the data in MySQL database.
- Developed a categorization method using Amazon MechanicalTurk, Amazon, Yelp & Doctoralia APIs and FDA database to provide action items corresponding to each treatment.
- Deployed an interactive web app designed using Bootstrap, Flask and jQuery on Amazon Web Services.

2009–2014 *Graduate Researcher (PhD)*

University of Washington

- Engineered a family of synthetic plant hormonal pathways to characterize the native functionality and the engineerability of complex synthetic networks using the pathway components.
- Developed an optimization approach that identifies a mathematical model of the network in Mathematica.
- Translated the Mathematica package to Python to promote easier collaboration.
- Organized the management of laboratory automation software by implementing the Scrum framework.

2007–2009 *Graduate Researcher (MSc)*

University of British Columbia

- Implemented Markov Chain Monte Carlo algorithms using MATLAB to estimate model parameters of large scale biological process with low quality data
- Simulated the range of operation of bioprocesses in industrial settings using multiple mathematical models.
- Motivated collaborative projects across departments by organizing an interdisciplinary reading group.

education

2009–2014 **PhD** in Electrical Engineering

University of Washington

2007–2009 **MSc** in Chemical & Biological Engineering

University of British Columbia

2002–2007 **BS** in Chemical Engineering, Minor in Math & Chemistry

University of Washington

awards

2013 Global Grand Challenges Summit Delegate

University of Washington

2012 Kenney Fellowship

University of Washington

2009 Clairmont L. Egtvedt Fellowship

University of Washington

contact

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languages

Python
JavaScript
Mathematica ❤️
MATLAB

tools

BeautifulSoup
Numpy & SciPy
NLTK, Scikit-Learn (some exp)
MySQL, Flask, AWS

For complete CV

