CHRISTINE CHEN

DATA SCIENTIST

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Education

The Ohio State University, College of Arts and Sciences
M.S. Earth Sciences 2016

The City College of New York (CUNY), Grove School of Engineering
M.E. Civil Engineering 2011

Columbia University, Fu Foundation School of Engineering and Applied Science
B.S. Chemical Engineering 2007

Skills

MACHINE LEARNING
Regression
Classification
Natural-language processing

COMPUTING
Python
Unix
MATLAB
pandas
scikit-learn
matplotlib
seaborn
Git / GitHub

MATHEMATICAL
Calculus
Linear Algebra
Statistics

Summary

Professional with strong technical background interested in applying data analysis and prediction to the creation of innovative, impactful products that improve the customer experience. Consistent track record of results analyzing data to derive new insights using large datasets and programming.

Experience

Metis
Data Scientist
New York, NY
2018 to Current

Completed data science projects as a member of an accredited 12 week project-based bootcamp. Responsibilities included project design, data acquisition, analysis and prediction along with a presentation of findings.

- **Themes of U.S. Presidential Speeches:** Explored subject matter of all U.S. Presidential speeches using topic modeling and sub-topic modeling, particularly tf-idf and NMF.
- **Which socioeconomic factors affect climate change?** Performed extensive data cleaning and applied random forest to a multi-sourced dataset to determine which socioeconomic factors have the most impact on temperature changes over a ~50 year time period.
- **What impacts the total domestic gross of movies?** Applied various linear regression models to determine what movie elements have the most impact on total domestic gross.
- **Street Team Placement Strategy for the Women Tech Women Yes Annual Gala:** Collaborated with 4 team members in the exploration and visualization of multiple data sources to suggest subway stations to target for a marketing campaign.

Engineers Without Borders - New York Professionals chapter
Technical Volunteer
New York, NY
2016 to 2017

Collaborated with a team in an ongoing project to increase the amount of potable drinking water to a village in Misuuni, Kenya. Contributed to an investigation on water engineering designs and provided a recommendation on piping material given local climate conditions and cost constraints.

The Ohio State University, School of Earth Sciences
Graduate Research Associate
Columbus, OH
2013 to 2016

Analyzed multiple datasets, including visible imagery, LiDAR, radar, and meteorological output from a regional climate model in order to gain a better understanding of hydrological changes in Greenland in a warming climate.

- Lead author in a Fall 2017 journal publication
- Awarded $900 to engage at the AGU annual meeting, the largest geophysics conference in the world
- Awarded 1000 Euro by conference organizers to present findings in an international research conference in Ilulissat, Greenland
- Invited to speak to undergraduates at Otterbein University, a liberal arts college
- Project featured in two articles within School of Earth Sciences alumni magazine in 2015

The Ohio State University, Byrd Polar & Climate Research Center
Research Assistant | Graduate Research Associate
Columbus, OH
2011 to 2013

Constructed a satellite derived classification map of the Greenland ice sheet. This is achieved through the creation of over a decade of clear-sky annual mosaics of the Greenland ice sheet from visible satellite imagery, followed by construction of a classification map derived from said mosaics using thresholds on the different bands.

- Recognized contributor to the Greenland map insert to The Times Comprehensive Atlas of the World, 13th edition, the world's most prestigious and authoritative atlas
- Coauthor of annual National Oceanic and Atmospheric Administration Arctic Report Card 2011
- Coauthor of Spring 2012 journal publication

The City College of New York, CUNY
Graduate Research Associate
New York, NY
2009 to 2011

Investigated the performance of a satellite derived snow product by comparing its measurements to ground-based observations nationwide on a seasonal basis.

- Lead author in Spring 2012 journal publication
- 1 of 6 NOAA Cooperative Science Center for Earth System Sciences and Remote Sensing Technologies students selected to visit researchers at Colorado State