

SOPHIE CHOU

soph@media.mit.edu
sophiechou.com
(908) 922 9782
@mpetitchou

EDUCATION

- 2016 (Expected) Massachusetts Institute of Technology, Media Lab; Cambridge, MA
M.S. in Media Arts and Sciences
Advisor: Deb Roy, Laboratory for Social Machines
Selected coursework: Topics in 21st Century Journalism, Future of News and Participatory Media
- 2010 - 2014 Columbia University, School of Engineering; New York, NY
B.S. in Computer Science, Artificial Intelligence track
Selected coursework: Statistical Machine Learning, Natural Language Processing

EXPERIENCE

- 2014 - Present Research Assistant, MIT Media Lab; Cambridge, MA
The Electome: mixing large streams of social, news, and political data to analyze the elections.
- Developing an active machine learning system for interactive annotation of media
- Built an end-to-end (database to visualization) system to stream news articles in real-time
- 2013 - 2014 Undergraduate Researcher, The History Lab at Columbia University; New York, NY
The Declassification Engine: tracking government secrecy to promote transparency.
- Developed algorithms to detect redacted areas of archived documents
- Performed topic modeling on declassified historical US Foreign Relation documents
- Contributed to a probabilistic graphical model for predicting redacted text
- Winter 2014 Undergraduate Researcher, Columbia Journalism School, New York, NY
Newshub: tracking censorship on Chinese media sites. Magic Grant award.
- Developed automated scripts to compare versions of posted articles in Chinese news sites
- Summer 2013 Data Science Intern, Knewton, New York, NY
Using machine learning to model student learning.
- Developed a layered hidden Markov model for estimating the effectiveness of math problems
- Contributed to an open-source implementation of the Kalman filter algorithm

TEACHING

- Summer 2015 Supervisor, MIT Summer Research Program (for Underrepresented Students), Summer 2015
Spring 2015 Teaching Assistant, Introduction to Social Machines, MIT Media Lab, Spring 2015
Summer 2014 Guest Lecturer, the Lede Program, Columbia Journalism School, Summer 2014

WRITING

- 2012 Columnist, Columbia Daily Spectator
2011 Editorial Board, Columbia Daily Spectator

TECHNICAL SKILLS

Python, Matlab, R; Javascript, d3, HTML, CSS; SQL, PostgreSQL, MongoDB; Meteor, Flask