

**AGRIPPA KELLUM**

623 University Avenue, Ithaca, NY, 14850 / [agrippakellum@gmail.com](mailto:agrippakellum@gmail.com) / 662.436.0357 / <http://ask.fish>

**Current Status:** Cornell University Sophomore majoring in Information Science and Government, with a minor in Philosophy

**Areas of Interest:** Labor, Technology, and Community Interactions; Markets; Collective Action; Social Contagion; Decentralized Selfish-user Systems; Productivity Software

**Skills:** Network Modeling; Data Mining; Visualization; Machine Learning; Bayesian Probability; Client-server Architecture; Cryptography

**Programming:**

- Python (scikits-learn and gensim [machine learning]; nltk [natural language processing]; pygame and matplotlib [visualizations]; basemap [geographical visualization]); JavaScript (d3 & jQuery); C#; Java

**Experience:**

- **Cornell University Social Dynamics Lab (2016-2017)**
  - Allowed replication of Twitter-based study in Facebook: Yongren Shi, Kai Mast, Agrippa Kellum, Michael Macy. "Cultural Fault-Lines and Political Polarization." In review.
  - Visualization Enhancement for figure depicting agreement of Amazon book reviewers by political party
- **Independent Activities (2015-2016)**
  - Created visualization software depicting correlations within American Community Survey (ACS) county-level data that allows the addition of other county-level datasets, with a back-end server to process user requests and uploads (source of background image; <http://ask.fish/corr>)
  - Productivity Software—created HTML5 webapp prototype using Google API
  - Policy Analyst for Roosevelt Institute
  - Editor for Logos Undergraduate Journal of Philosophy at Cornell
  - Inter-Cooperative Council Co-President
- **Mississippi State University Social Science Research Center (2011-2014; 2016)**
  - Intern/Student Worker
  - Worked on the Social Media Tracking and Analysis System (SMTAS) project with the Innovative Data Laboratory
  - Created prototype of a model to compare social media data and post-storm damage assessment maps in order to determine feasibility of predicting storm damage in advance of on-the-ground surveying
  - Applied the model to Hurricane Sandy and the Moore, Oklahoma, tornado to compare its effectiveness with different types of natural disasters
  - Provided foundational work for the SSRC National Oceanic and Atmospheric Administration-funded grant titled, "Assessment of Social Media Usage during Severe Weather Events and the Development of a Twitter-based Model for Improved Communication of Storm-related Information"
  - Researched dependability of Twitter user profile information for social media analysis, such as disaster response
  - Explored the use of unsupervised machine learning and natural language processing as a tool for analyzing trends in social media in real time
  - Researched use of cell phones and other technology in Sierra Leone as a part of a research proposal to use cell phones as a way of spreading medical information and serving as medical reporting tools to public health workers
- **Mississippi School for Mathematics and Science (2013-2015)**
  - Essay Published in The Atlantic.com (<http://www.theatlantic.com/education/archive/2016/02/punching-above-their-weight-in-mississippi/462453/>)
  - Independent Study in Cryptocurrency/Cryptocurrency Club Founder
  - Independent Study: Computer Simulation in Biomechanics
  - Designed and programmed agent-based model of foot traffic in 36-hour HiMCM modeling competition
  - Programming Class Proposal to help Mississippi students build self-directed programming skills after school, particularly in disadvantaged districts (<http://tinyurl.com/agrippaproposal/>)