

# Dan Calacci

51 Creighton Street, Apt. #2  
Boston, MA, 02130  
(908)-229-8992  
[www.dcalacci.net](http://www.dcalacci.net)  
[dan@dcalacci.net](mailto:dan@dcalacci.net)

## Education

### MIT Media Lab

Advisor: Alex (Sandy) Pentland, Human Dynamics Group  
Candidate for a M.S. in Media Arts and Sciences

Starting Sept. 2016

### Northeastern University (NEU)

College of Computer and Information Science (CCIS)  
B.S in Computer Science, **Minors:** Political Science, Sociology. 2016.

Boston, MA. Sept 2011 - Dec 2015

Courses: Artificial Intelligence (Graduate), Algorithms & Data (Graduate), Mobile Application Development, Software Development, Health and Public Policy (Graduate)

Honors: 3.5/4.0 GPA, Dean's Scholarship, Garnet Award, CCIS Fellow, CCIS Peer Mentor

Activities: CCIS Tour Guide, NU HACKS

## Work Experience

### MIT Media Lab Human Dynamics Group, Research Assistant

Boston, MA. Jan. 2015 - Present

- Investigating the effect of mobile data collection/visualization on diabetic patients' health behaviors.
- Developing a realtime visualization framework for the analysis of group social dynamics using data collected from a wearable mobile phone platform.

### NEU Lazer Lab, Research Assistant

Boston, MA. Jan. 2014 - Jan. 2015

- Pursued independent research interests, exploring the relationship between political social dynamics and language use through computational analysis.
- Contributed to the development and design of volunteerscience.com, built with Django.

### NEU CCIS, CCIS Fellow

Boston, MA. Sept. 2013 - Jan. 2016

- Co-teach the CCIS Overview class for incoming first year students and manage the team of TAs.
- Help students develop resumes, acquire interview skills, and prepare for their first job.

### SAIC/LEIDOS, Software Engineer Co-Op

Arlington, VA. Jan. - July 2013

- Co-designed and developed user-facing software to manage, examine, and control a robotic boat using Java, ActiveMQ, and the Eclipse Plugin Framework.
- Developed a code generator in Python that generated C++ header files from XML schemas.

## Honors and Awards

**Fulbright (2016):** Fulbright finalist for a Study/Research grant in Iceland; award declined.

**Garnet Award (2015):** Awarded to those who exemplify leadership, volunteerism, academic integrity and commitment to Northeastern University.

## Technical Knowledge

### Proficient

Languages: Python, Coffeescript/Javascript, Clojure, Racket, Java, Perl

Systems: GNU/Linux, emacs, Android, Mac/OSX

Software: D3.js, IPython Notebook, Node.js, Meteor.js, React, Gephi, Django, Flask, jQuery

### Familiar With:

Languages: R, Ruby, Scala, Haskell

Software: SQL, Matlab, TileMill, QGIS

## Research Projects

### Team Dynamics and Decision Making

- Investigating how a group's social dynamics affects the quality of decision making in the form of predictions and team performance.
- Creating dynamic systems to measure and impact human social interaction in co-located and distributed contexts.

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- Investigating the relationship between the social interactions of peer learning groups and group learning outcomes.
- Prototyping systems to augment human decision making using social interaction data

## **Non-Communicable Disease And Mobile Data**

- Investigating how behavioral diseases can be predicted and measured using passive behavioral data collected from mobile phones
- Building user-centric mobile data collection and feedback platforms for clinical behavioral health studies.
- Understanding how human mobility and social behaviors can predict acute conditions in people who suffer from chronic disease.

## Publications

### **A Frame of Mind: Using Statistical Models for Detection of Framing and Agenda Setting Campaigns**

Oren Tsur, **Dan Calacci**, and David Lazer  
ACL-IJCNLP 2015

### **As Long as You Name My Name Right: Social Circles and Social Sentiment in the Hollywood Hearings**

Oren Tsur, **Dan Calacci**, and David Lazer  
Proceedings of ACL Joint Workshop on Social Dynamics and Personal Attributes (ACL 2014)

## Other Projects

### **Adventur** [Flask, MongoDB, Angular.js, Python, Pandas, Scipy]

A web application that measures a users' adventurousness using an n-gram & clustering based geo-trace model. Adventur won the **Most Innovative** prize at Hack Beanpot 2014.

### **Open Itinerary** [Leaflet.js, Angular.js, Parse, Foursquare API, Flask]

A web app that makes it easy to create travel itineraries, get suggested places to visit, and share trip plans with others. It was a runner-up for **Hack with Most Potential** at Unhackathon 2014.

### **life-as-music** [Flask, Pandas, Numpy, Clojure, Overtone]

A program that uses a generative algorithm to create music from Jawbone UP and Twitter data. It won **Best Use of Jawbone UP API** at Hack MIT 2014.