

# Nathaniel Fruchter

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## Education

**MASSACHUSETTS INSTITUTE OF TECHNOLOGY, CAMBRIDGE, MA – EXPECTED, JUNE 2018**

M.S. in Technology and Policy. Research assistant in the Internet Policy Research Initiative.

**CARNEGIE MELLON UNIVERSITY, PITTSBURGH, PA – MAY 2016 – GPA: 3.83 / 4.00**

B.S. in Decision Science and Science, Technology, and Public Policy. Minor in Human-Computer Interaction. Member of the Science and Humanities Scholars program. Phi Beta Kappa society.

## Research

**PITTSBURGH ENERGY FORUMS – JAN 2016-MAY 2016**

- Part of the *Energy: Science, Society, and Communication* course taught in collaboration with the National Academies of Science and their Science Ambassadors program.
- Collaborated with leading energy researchers to emphasize the necessity and tradeoffs surrounding the modernization of today's electrical distribution systems.

**CARNEGIE MELLON ENGINEERING AND PUBLIC POLICY, CAPSTONE PROJECT – AUG 2015-DEC 2015**

- Investigated community response to personal environmental monitors (PEMs) within the context of the Pittsburgh and Allegheny County area.
- Led structured interviews with area stakeholders, including nonprofits and regulators.
- Contributed to a comprehensive policy report regarding the usage of PEMs for air quality monitoring utilized by a CMU-affiliated air quality monitor manufacturer.

**CARNEGIE MELLON HUMAN-COMPUTER INTERACTION, RESEARCH ASSISTANT – JAN 2014-MAY 2015**

- Create experimental scenarios, methods, and measures for new and existing studies.
- Contribute to research on mediated decision making, user mental models, network security, and algorithmic management by participating in writing and editing of papers.
- Collaborate with lab members and faculty on quantitative and qualitative data collection by running lab studies, performing statistical analyses, coding data, and developing software.
- Active contributor to five human-computer interaction studies.

## Work Experience

**CARNEGIE MELLON INST. FOR POLITICS & STRATEGY, TEACHING ASSISTANT – AUG 2015-DEC 2015**

- Assist professor and co-TA within grading and course management tasks for an introductory political science and government course.
- Serve as an academic resource for students by answering questions and running reviews.

**CARNEGIE MELLON UNIVERSITY HOUSING & DINING, DESK SERVICES ATTENDANT – FALL 2012-SPRING 2016**

- Act as a first point of contact for residents and visitors needing assistance in campus dorms.
- Work with Housing and Dining to ensure dorm security and report issues needing attention.

**CARNEGIE MELLON UNIVERSITY PHILOSOPHY, GRADER – JAN 2014-MAY 2014**

- Graded and gave feedback on essays for students in an introductory philosophy course.

**GAMEFUL.ORG, DEVELOPER & COMMUNITY INTERN – NOV 2010-NOV 2011**

- Helped improve the [gameful.org](http://gameful.org) landing and platform using WordPress, PHP, and HTML.

## Publications

Kang, R., Dabbish, L., **Fruchter, N.** and Kiesler, S. "My data just goes everywhere:" User mental models of the Internet and implications for privacy and security. In Proc. SOUPS 2015.

**Fruchter, N.**, Miao, H., Stevenson, S., and Balebako, R. Variations in Tracking in Relation to Geographic Location. Presented at IEEE Workshop on Web 2.0 Security and Privacy, 2015.

Lee, M.K., **Fruchter, N.** and Dabbish, L. Making decisions from a distance: The impact of technological mediation on riskiness and dehumanization. In Proc. ACM CSCW 2015.

## Certifications and Awards

**IAPP** Certified Information Privacy Technologist (CIPT) certificate

**Carnegie Mellon** Dietrich College Dean's List Honors – Fall 2012-Spring 2016

## Skills

**Computing** Excellent knowledge of all major operating systems (Windows, Mac OS, Linux), along with Adobe Photoshop and Microsoft Office. Proficient with JMP statistical software.

**Programming** Proficient in Python, HTML, JavaScript, and CSS. Working knowledge of PHP, AngularJS, and jQuery. Experienced with hybrid mobile development (PhoneGap).

**Photography** Concert, event, and landscape photography.

## Coursework

**DECISION AND SOCIAL SCIENCES** Empirical Research Methods, Uncertain Social Systems, Policy Analysis, Cognitive Psychology, Judicial Politics, Behavioral Decision Making

**POLICY AND ANALYSIS** Stats for Lab Sciences, Ethics and Policy Issues in Computing, Privacy Policy Law and Technology, Decision Analysis and Decision Support

**TECHNOLOGY** Human Centered Software, Interaction Design, Applied Fabrication for HCI

## Activities and Leadership

**EDITOR-IN-CHIEF - THE THISTLE YEARBOOK – 2015-2016 SCHOOL YEAR**

As editor in chief, I managed and coordinated our staff and four editors to produce a yearly edition of Carnegie Mellon's yearbook. I served as the primary contact point between the organization and the wider university community, developed long-term organizational goals for the yearbook and its staff, and oversaw a \$10,000 organizational budget.

**COFOUNDER AND CONFERENCE MANAGER - CMU IRO – FALL 2012–SPRING 2015**

As a founding member, I helped overhaul Carnegie Mellon's failing Model United Nations organization along with four other student leaders. Starting with a minimal on-campus presence, we restructured the organization and have since started hosting a successful, innovative MUN conference for high schoolers. In addition, I also served as webmaster and redeveloped the organization's online presence.