

# Emma Lurie

elurie@wellesley.edu

## EDUCATION

**Wellesley College**, Wellesley, MA

Expected Graduation May 2019

Candidate for Bachelor of Arts; Major GPA 3.78/4.00

Majors: Computer Science and Chinese Language & Culture

## RESEARCH EXPERIENCE

**MIT Political Science Department**, Cambridge, MA

Sept. 2017- Present

*MIT Election Data and Science Lab, Undergraduate Researcher*

- Developed readable and modular scripts for collecting precinct level election data.
- Programmatically standardize election data using R and Python.
- Designed and created open-source election night scraping tools.

**Wellesley College Computer Science Department**, Wellesley, MA

May 2017- Present

*Research Assistant- CRED Lab with Prof. Eni Mustafaraj*

- Create and analyze user studies to assess individuals' web literacy skills.
- Develop and maintain scripts that scrape and monitor Google search results pages.
- Write and research articles concerning online misinformation and credibility.
- Leveraged data science and machine learning techniques to analyze the intersection of online misinformation and advertising.

*Research Assistant-Hess Fellow Dr. Sravana Reddy*

Sept. 2016 - May 2017

- Researched native language's effect on code stylometry in the visual programming environment, App Inventor.
- Leveraged Python sklearn library to apply machine learning techniques.

## PUBLICATIONS

Mustafaraj E., **Lurie E.**, (2019). "Opening Up the Black Box: Auditing Google's Top Stories Algorithm." *Submitted for review at the 2019 Florida Artificial Intelligence Research Society Conference.*

**Lurie, E.\***, Rothschild, A.\*, Mustafaraj E. (2019). "How the Interplay of Google and Wikipedia Affects Perceptions of Online News Sources." *Accepted for the 2019 Computation + Journalism Symposium.*

**Lurie, E.**, Mustafaraj, E. (2018). "Investigating the Effects of Google's Search Engine Result Page in Evaluating the Credibility of Online News Sources." In Proceedings of the 10<sup>th</sup> ACM Conference on Web Science, (WebSci '18). Amsterdam. 27-30 May 2018. (27% acceptance rate.)

**Lurie, E.** (2019). "When an Algorithm Determines the News: Auditing Google Top Stories." *Undergraduate thesis in progress.*

## POSTERS & PRESENTATIONS & OTHER WRITING:

**Lurie, E.**, Umarova, K., Mustafaraj, E. "Stop Falling for Fake News: Three Easy Steps." Poster Presentation at Carnegie Mellon University OurCS Conference, Pittsburgh, PA, October 2017. Awarded *Best Poster*.

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**Lurie, E.,** Umarova, K., Mustafaraj, E. "Stop Falling for Fake News: Three Easy Steps." Poster Presentation at Wellesley College Summer Research Program, Wellesley, MA, July 2017. *Awarded Best Computer Science Poster.*

Umarova, K., **Lurie, E.,** Mustafaraj, E. "SERP Observatory of Pseudoscience: Exploring Misinformation in Google Searches" Poster Presentation at Wellesley College Summer Research Program, Wellesley, MA, July 2017.

**Lurie, E.,** Reddy, S. "Native Language in App Inventor via Code Stylometry." Poster Presentation at the Wellesley College Undergraduate Research Symposium, Wellesley, MA, April 2017.

**Lurie, E.** "Scraping Election Data in R and Python." Presentation at the MIT Election Data and Science Lab. Cambridge, MA, August 2018.

**Lurie, E.,** Kabkov, L., Kim, C., Ngyuen, B., Vu, A., Li, A. "Science Fiction Meets Policy: Securing Our Biometric Data." Presentation at the Albright Institute, Wellesley, MA, January 2018.

**Lurie, E.** "Educational Technology in the 21<sup>st</sup> Century." Presentation at the Wellesley College Ruhlman Conference, Wellesley, MA, April 2016.

**Lurie, E.** "Why Google Isn't Always Right." Written for *The Spoke*. October 2017.

**Lurie, E.** "Googling for the Kansas Primary." Written on *Medium*. August 2018.

## FELLOWSHIPS & AWARDS:

Computing Research Association's (CRA) Outstanding Undergraduate Researcher Award for 2019: Runner up

Best Computer Science Poster at Wellesley College Summer Research Program "Stop Falling for Fake News: Three Easy Steps," 2017.

Best Poster at Carnegie Mellon University OurCS Conference "Stop Falling for Fake News: Three Easy Steps," 2017.

SIGWeb Student Travel Grant. May 2018.

Albright Institute Fellowship 2017-2018. *The Albright Institute harnesses the power of the liberal arts to advance knowledge and foster global understanding. 40 students are chosen from across the majors and disciplines to participate. After weeks of research, collaboration, and expert interviews, the Fellows make presentations a distinguished guest expert.*

Adam Smith Fellowship 2015-2016. *Adam Smith Fellows have the opportunity to work on original research projects to present their findings at Wellesley's Ruhlman Conference in the spring and to participate in an annual student-organized conference for fellows and guests.*

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## WORK EXPERIENCE

**Wellesley College Pforzheimer Learning and Teaching Center, Wellesley, MA**

*Computer Programming and Problem Solving Tutor and Peer Mentor*

Sept. 2016- Dec. 2017

- Facilitated weekly question and answer sessions covering topics ranging from problem solving techniques to best practices for code style.
- Explained foundational programming concepts (object-oriented design, recursion) in accessible language.
- Led discussion group and provided mentorship for students with an interest in computer science.

**Girls Who Code, Cambridge, MA**

June-August 2016

*Summer Immersion Program Teaching Assistant*

- Co-taught six programming languages over seven weeks including Python and HTML/CSS/JavaScript to 20 high school girls.
- Created lesson plans and problem sets for struggling students

**Robogals, Wellesley, MA**

Sept. 2015 - May 2017

*Volunteer, Co-Training Manager*

- Updated and modified a curriculum focused on building computational thinking skills and inspiring enthusiasm for engineering.
- Managed and trained 40 student volunteers.