

Alexandra Papoutsaki

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Education

- July 2017 **Ph.D. in Computer Science**
(expected) Brown University
Dissertation: Democratizing Eye Tracking
Advisor: Jeff Huang
- 2013 **M.Sc. in Computer Science**
Brown University
Advisor: Benjamin Raphael
- 2011 **B.Sc. in Computer Science**
Athens University of Economics and Business

Honors & Awards

- 2017 **Prize** Brown Chapter Of Sigma Xi
- 2017 **Runner Up**, Best Paper award, ACM SIGIR Conference on Human Information Interaction & Retrieval (CHIIR)
- 2015 **Runner Up**, Best Paper award, AAAI Conference on Human Computation and Crowdsourcing (HCOMP)
- 2013 **Best Paper Award**, Annual International Conference on Research in Computational Molecular Biology (RECOMB)
- 2012 **Scholarship** Gerondelis Foundation(\$4000)
- 2011, 2016 Kanellakis Fellowship
- Travel Funds: WIT 2012, CHI 2015, HCOMP 2015, GHC 2016

Teaching Experience

- Fall 2016 **Co-Instructor** - Topics in 2D Game Engines (CSCI 1950N)
Brown University, students: 16
- Fall 2015 **Instructor** - Intro to Computation for Humanities and Social Sciences (CSCI 0931)
Brown University, students: 17
- Spring 2015 **Teaching Assistant** - Human Computer Interaction Seminar (CSCI 2300)
Brown University, students: 21

- Spring 2014 **Teaching Assistant** - Human Computer Interaction Seminar (CSCI 2951-L)
Brown University, students: 19
- 2012–2013 **Teaching Assistant** - Android Development Workshop for High School Students
Brown Computer Science without Borders Teaching & Providence After School Alliance

Teaching Development

Teaching Certificates by the Sheridan Center for Teaching & Learning, Brown University.

- 2015–2016 **Certificate II:** The Course Design Seminar - Principles + Practice
2014–2015 **Certificate III:** The Professional Development Seminar
2012–2014 **Certificate I:** Sheridan Teaching Seminar - Reflective Teaching

Mentoring Experience

- 2017–present Ishaan Agarwal - B.Sc. Computer Science (expected 2019)
2016–present Aaron Gokaslan - B.Sc. Computer Science (expected 2018)
2015–2016 James Laskey - B.Sc. Computer Science, 2016 - now at Google
2014–2015 Patsorn Sangkloy - M.Sc. Computer Science, 2015 - now PhD at Georgia Tech
2014–2015 Danae Metaxa-Kakavouli - B.A. Computer Science and Science, Technology, and Society, 2015 - now PhD at Stanford University

Publications

Manuscripts under submission

- [M.1] S. Wallace, **A. Papoutsaki**, H. Guo, J. Huang. Crowdsourcing Data Curation Through the Eyes of Novice Requesters. *Journal of Human Computation*

Conference Proceedings

- [C.1] **A. Papoutsaki**, J. Laskey, J. Huang. (2017). SearchGazer: Scalable Webcam Eye Tracking for Remote Studies of Web Search. *Proceedings of the ACM SIGIR Conference on Human Information Interaction & Retrieval (CHIIR)*. [42% acceptance rate]
Best Paper Award Runner Up
- [C.2] **A. Papoutsaki**, P. Sangkloy, J. Laskey, N. Daskalova, J. Huang, J. Hays. (2016). WebGazer: Scalable Eye Tracking Using User Interactions. *Proceedings of the 25th International Joint Conference in Artificial Intelligence (IJCAI)*. [25% acceptance rate]
- [C.3] **A. Papoutsaki**, H. Guo, D. Metaxa-Kakavouli, C. Gramazio, J. Rasley, W. Xie, G. Wang, J. Huang. (2015). Crowdsourcing from Scratch: A Pragmatic Experiment in Data Collection by Novice Requesters. *Proceedings of the 3rd AAAI Conference on Human Computation and Crowdsourcing (HCOMP)*. [30% acceptance rate]
Best Paper Award Runner Up

- [C.4] F. Vandin, **A. Papoutsaki**, B.J. Raphael, E. Upfal. (2013). Genome-Wide Survival Analysis of Somatic Mutations in Cancer. *Proceedings of the 17th Annual International Conference on Research in Computational Molecular Biology (RECOMB)*. [19% acceptance rate]

Best Paper Award

Journal Articles

- [J.1] N. Daskalova, K. Desingh, **A. Papoutsaki**, D. Schulze, J. Sha, J.Huang. (2017) Lessons Learned from Two Cohorts of Personal Informatics Self-Experiments. Accepted for publication at *Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT)*
- [J.2] F. Vandin, **A. Papoutsaki**, B.J. Raphael, E. Upfal. (2015). Accurate Computation of Survival Statistics in Genome-Wide Studies. *Plos Comput Biol*, 11(5) e1004071
- [J.3] M.D.M. Leiserson, F. Vandin, H-T. Wu, J.R. Dobson, J.V. Eldridge, J.L. Thomas, **A. Papoutsaki**, Y. Kim, B. Niu, M. McLellan, M.S. Lawrence, A. Gonzalez-Perez, D. Tamborero, Y. Cheng, G.A. Ryslik, N. Lopez-Bigas, G. Getz, L. Ding, B.J. Raphael. Pan-cancer network analysis identifies combinations of rare somatic mutations across pathways and protein complexes. (2015). *Nature Genetics*. 47(2): 106-114

Doctoral Consortiums

- [D.1] **A. Papoutsaki**. (2015). Scalable Webcam Eye Tracking by Learning from User Interactions. *Proceedings of the 33rd Annual ACM Conference Extended Abstracts on Human Factors in Computing Systems (CHI 2015)*

Service

Program Committees

HCOMP AAI Conference on Human Computation and Crowdsourcing, 2016

Reviewing

CHIIR ACM SIGIR Conference on Human Information Interaction and Retrieval, 2017

CHI ACM CHI Conference on Human Factors in Computing Systems, 2015-2017

WWW International World Wide Web Conference, 2015

HCOMP AAI Conference on Human Computation and Crowdsourcing, 2014

IJHCI International Journal of Human-Computer Interaction, 2014

Leadership

2016–present Diversity Committee Representative, Brown University

2015–present Mentor for undergraduate female CS students, Brown University

2015–present Sheridan Center for Teaching and Learning, Departmental Liaison, Brown University

2015 Computer Science Graduate Student Recruitment, Coordinator, Brown University

2012–2014 President of the Hellenic Students Association, Brown University

2012–2013 Brown Computer Science without Borders Teaching, Brown University & Providence After School Alliance

Open-Source Software and Public Datasets

- 2016 *WebGazer.js*: Democratizing Webcam Eye Tracking on the Browser [C.2]
Source: <https://github.com/brownhci/WebGazer>
- 2015 *Computer Science Faculty Dataset*: Academic development of 3600 faculty from 100 top US and Canadian Universities [C.3]
Dataset: <http://drafty.cs.brown.edu/professors>
- 2013 *Exalt*: Accurate Genome-Wide Survival Analysis [C.4]
Source: <http://compbio.cs.brown.edu/projects/survival>

Press and Media Coverage

WebGazer.js [C.2]

- June 2016 **HackerNews** - WebGazer.js: Eye Tracking on the Browser. <https://goo.gl/Kk0V86>
- June 2016 **PCWorld** - Web developers, meet WebGazer: software that turns webcams into eye-trackers. <http://goo.gl/m0U090>
- June 2016 **Reddit** - Webgazer.js, eye tracking library using the webcam that can be put on any website. <https://goo.gl/ebUZU6>
- June 2016 **Softpedia** - WebGazer Uses JavaScript and Your Webcam to Track Eye Movements. <http://goo.gl/PLeHKV>
- June 2016 **TechXplore** - Software turns webcams into eye-trackers. <http://goo.gl/1aNiGR>
- June 2016 **The Register** - Brown boffins brew eye-tracking Javascript. <https://goo.gl/sy1JgC>

Faculty Dataset [C.3]

- June 2016 **Computer Science Rankings** <http://csrankings.org>
- June 2014 **CSAIL MIT** - Ranking of CS Departments based on the Number of Papers in Theoretical Computer Science. <http://projects.csail.mit.edu/dnd/ranking>
- June 2014 **Keshif** - Faculty in 50 Top US Computer Science Departments. http://keshif.me/demo/cs_faculty
- May 2014 **Reddit** - Brown's Jeff Huang And 19 Students Crowdsource A Dataset Of 2,200 CS Faculty In 16 Days. <https://goo.gl/WIrJKN>