

CV | Samantha McDonald

Education:

Ph.D.	2016- In Progress	Informatics , Donald Bren School of Information and Computer Sciences University of California, Irvine Advisor: Melissa Mazmanian
M.S.	2019	Informatics , Donald Bren School of Information and Computer Sciences University of California, Irvine
B.S.	2016	Information Systems , Department of Information Systems, University of Maryland Baltimore County (UMBC) Research Advisor: Amy Hurst
<i>Abroad</i>	2014	Sophia University 上智大学 Tokyo, Japan

Experience:

Summer 2020	UX Intern , Facebook Scheduled for June- September of 2020
2019-2020	Research Intern , POPVOX User testing, design, and research on a new constituent correspondence and media software called LegiDash.
Summer 2018	Independent Research/Consulting Conducting research and developing public reports in collaboration with the Democracy Fund, Congressional Management Foundation, and the Open Gov Foundation. Advised CMF on matters related to constituent communication technology in Congress.
Summer 2017	Research Assistant , Congressional Management Foundation Performed data analysis for four Congresspersons deploying constituent satisfaction surveys in their districts. Produced public reports on findings.
2016-2017	Research Assistant , Social Code Group, University of California, Irvine Assisted senior Ph.D. students on their technical innovations on sustainable agriculture and polyculture systems research.
2013-2016	Undergraduate Researcher , Prototyping and Design Lab, UMBC Extensive research on 3D printing for assistive technology use and education. Included 3D modeling, rapid prototyping, 3D printer construction, and user-centered design studies.
Summer 2015	Intern , Johns Hopkins University Applied Physics Lab (APL) Asymmetric Operations Unit. SIRIUS IARPA funded project. Assisted team to test video games to mitigate cognitive biases in intelligence agents. <u>News Article</u> : Drummond, Katie. "U.S. Intelligence Will Train Super-Sleuths With Videogames." <i>Wired.com</i> . 22 Nov. 2011. Web.
Summer 2013	Intern , Merkle Inc. Captured SQL database requirements for a new billing application.

Publications¹:

Papers	[1] <u>Samantha McDonald</u> , Fan Yin, Melissa Mazmanian. 2020. Communications Technology as Symbols of Institutional Legitimacy in the U.S. Congress. <i>Journal of Information Technology and Politics</i> . (Accepted with Revisions).
	[2] <u>Samantha McDonald</u> and Melissa Mazmanian. 2019. Information Materialities of Citizen Communication in the U.S. Congress. <i>Proc. ACM Hum.-Comput. Interact.</i> 3, CSCW, Article 47 (November 2019).

¹ ACM conference papers are considered prestigious high-impact publications in my field, much like journals in other fields.

- [3] Juliet Norton, Birgit Penzenstadler, Samantha McDonald, Emily Kang, Nora Koirala, Rieko Konishi, Gabriela Pena Carmona, Jainee Sha, Sebastian Troncoso. 2019. The Sage Community Coordinator: A Proof of Concept, In Proceedings of the Second Workshop on Computing within Limits. ACM.
- [4] Samantha McDonald, Bonnie Nardi, and Bill Tomlinson. 2017. Political realities of digital communication: The limits of value from digital messages to members of the US congress. In Proceedings of the 2017 Workshop on Computing Within Limits. ACM, 129–138.
- [5] Juliet Norton, Ankita Raturi, Bonnie Nardi, Sebastian Prost, Samantha McDonald, Daniel Pargman, Oliver Bates, Maria Normark, Bill Tomlinson, Nico Herbig, et al. 2017. A grand challenge for HCI: food+ sustainability. *Interactions* 24, 6 (2017), 50–55.
- [6] Samantha McDonald, Niara Comrie, Erin Buehler, Nicholas Carter, Braxton Dubin, Karen Gordes, Sandy McCombe-Waller, and Amy Hurst. 2016. Uncovering challenges and opportunities for 3D printing assistive technology with physical therapists. In Proceedings of the 18th International ACM SIGACCESS Conference on Computers and Accessibility. ACM, 131–139. ***Best Student Paper Award**
- [7] Samantha McDonald. 2016. 3D printing: a future collapse-compliant means of production. In Proceedings of the Second Workshop on Computing within Limits. ACM, 4.
- [8] Erin Buehler, Niara Comrie, Megan Hofmann, Samantha McDonald, and Amy Hurst. 2016. Investigating the implications of 3D printing in special education. *ACM Transactions on Accessible Computing (TACCESS)* 8, 3 (2016), 11.
- [9] Erin Buehler, William Easley, Samantha McDonald, Niara Comrie, and Amy Hurst. 2015. Inclusion and education: 3D printing for integrated classrooms. In Proceedings of the 17th International ACM SIGACCESS Conference on Computers & Accessibility. ACM, 281–290.
- Workshops [10] Samantha McDonald, Bill Tomlinson. 2017. “Sustainable Food Systems for Preventative and Prescriptive Medicine.” In ACM CHI 2017 Conference on Human Factors in Computing Systems, Workshop on Designing Sustainable Food Systems, Denver, CO.
- Posters [11] Sara Milkes, Samantha McDonald, Benedict Salazar Bolgado. TweetHeads: An Analysis of Twitter Use By Different Heads of State. *ACM Hum.-Comput. Interact.* 3, CSCW. November, 2019.
- [12] Samantha McDonald. 2018. ICTs for Representative Constituent Communication in the U.S. Congress. *ICT4S*.
- [13] Samantha McDonald, Joshua Dutterer, Ali Abdolrahmani, Shaun K Kane, and Amy Hurst. 2014. Tactile aids for visually impaired graphical design education. In Proceedings of the 16th international ACM SIGACCESS conference on Computers & accessibility. ACM, 275–276.
- White Paper [14] Samantha McDonald. 2018. Constituent Correspondence in the U.S. Congress. A Survey of Staff Perspectives. The Democracy Fund.
- Online Media [15] Samantha McDonald and Melissa Mazmanian. 2019. From citizens to data points: A word of caution for legislators. Blog Post. *LegBranch.org*.
- [16] Samantha McDonald. How Congress turns citizens’ voices into data points. *The Conversation*. 16, September. 2019.
- [17] Samantha McDonald. Staff Perspectives on the State of Constituent Correspondence in the U.S. Congress. *Legislative Branch Capacity Working Group*. Blog. 19, December. 2018
- [18] Samantha McDonald. Data, Storytelling, and Congress. *Congressional Management Foundation Blog*. 21, July. 2017.
- [19] Samantha McDonald. Stuck in Thomas Land No More. *Congressional Management Foundation Blog*. 13, July. 2017.

Funding

2019	Congressional Research Grant <i>The Dirksen Congressional Center</i>	\$2,450
2019	Research Grant <i>UCI Center for Organizational Research</i>	\$1,000
2018-2021	Graduate Research Fellowship Program (GRFP) <i>National Science Foundation</i>	\$114,000

2019	Conference Travel Scholarship <i>University of California, Irvine - Department of Informatics</i>	\$1,000
2018	Rob Kling Memorial Fellowship <i>University of California, Irvine - Donald Bren School of Information and Computer Sciences</i>	\$2,000
2018	Summer Research Grant <i>Democracy Fund</i>	\$10,000
2018	Conference Presentation Grant <i>University of California, Irvine - Donald Bren School of Information and Computer Sciences</i>	\$190
2017	Research Grant <i>UCI Center for Organizational Research</i>	\$500
2017	Conference Presentation Grant , <i>University of California, Irvine - Donald Bren School of Information and Computer Sciences</i>	\$300
2017	Associated Graduate Students (AGS) Travel Grant <i>University of California, Irvine</i>	\$400
2017	Graduate Assistance in Areas of National Need (GAANN) Fellowship <i>U.S. Department of Education</i>	\$11,000
2016	Collaborative Research Experiences For Undergraduates (CREU) <i>Computing Research Association For Women (CRA-W)</i>	\$10,300
2012-2016	Center for Women in Technology (CWIT) Scholarship Program <i>University of Maryland, Baltimore County</i>	\$40,000
2015	Vijay Jose Memorial Scholarship <i>University of Maryland Baltimore County, Information Systems Department</i>	\$200
2012, '14, '15	The Grace Hopper Conference Travel Scholarship <i>University of Maryland Baltimore County, Center for Women in Technology</i>	\$3,600

Research Awards:

2016	Best Student Paper Award , 2016, ASSETS SIGACCESS Conference on Computers & Accessibility
2014	Best Department Research Poster , <i>Clinical Fabrication of 3D Printed Assistive Technology</i> , UMBC Information Systems Department
2015	Best Department Research Poster , <i>Universal Gripper Using Granular Compression Technology</i> , UMBC Information Systems Student Research Poster Contest

Pedagogy:

Teaching

Spring 2020	ICS3 , Internet Technologies and Their Social Impact 130 students. Online course due to COVID.
-------------	--

Teaching Assistantships

Fall 2017	ICS5 , Global Disruption and Information Technology Online course, 200+ students with online discussion forums around technology and sustainability.
Winter 2018	ICS 162W , Organizational Information Systems
Spring 2018	40+ students per class. Taught weekly discussion sections on technical writing and organizational theories.

Teaching Training

Fall 2016	ICS 298A , Teaching Assistantship Seminar
Fall 2018	Course Design Certificate Program, UCI Division of Teaching Excellence and Innovation

Presentations:

2020	Conference Presentation , TICTeC 2020.[Scheduled Remote - Recorded Presentation]
2019	Guest Lecture , University of California, Irvine. ICS3, Internet Technologies and Their Social Impact
2019	Guest Lecture , University of Southern California, CSCI 499, Computing For Social Good

- 2019 **Presenter**, The Rise of Platforms: Individual, Institutional, and Governance Questions for Communication Research. ICA Post-Conference.
- 2018 **Presenter**, Opaque Media: A Workshop. UCI.
- 2018 **Participant**, UCI Technology, Law, and Society Summer Institute
- 2017 **Assistant Organizer**, Food CHI Designing Sustainable Food Systems Workshop
- 2016 **Participant**, Sustainable CHI Workshop

Affiliations:

- 2019 **Graduate Affiliate**, Jack W. Peltason Center for the Study of Democracy. University of California, Irvine.

Service:

- 2019-2020 **Lab Manager**, LUCI, Laboratory for Ubiquitous Computing and Interaction
- 2020 **AC/Reviewer**, ACM Human Factors in Computing Conference (CHI)
- 2019 **Co-Chair**, Student Volunteers, iConference
- 2019 **Paper Reviewer**, ACM Human Factors in Computing Conference (CHI)
- Paper Reviewer**, ACM Computer Supported Cooperative Work and Social Computing (CSCW)
- 2018 **Student Volunteer**, ACM Human Factors in Computing Conference (CHI)
- 2017 **Student Volunteer**, ICT for Sustainability (ICT4S)
- 2017 **Student Assistant**, ACM LIMITS Workshop

Technical Skills:

Experience: R, C++, Java, SQL, XHTML, CSS,
 Some Experience: Javascript, PHP, PSP, Python, Linux, Unix, 3D Modeling, Git, Arduino, 3D Printer
 Hardware Assembly, Computer Hardware Assembly

Research Skills:

Iterative Prototyping of Physical Devices
 Ethnographic Fieldwork
 Cognitive Interviewing For Survey Research
 Website User Testing and Protocol Development
 Interview Protocol Development and Implementation
 Qualitative Coding and Discourse Analysis
 Survey Design and Implementation
 Survey Regression Analysis and Modeling

Volunteer and Extracurriculars:

- 2017-2020 **Court Appointed Special Advocate**, Foster Care Volunteer, CASA Orange County
- 2019 **PhD Workshop Mentor**, Google Explore CRS Undergraduate Workshop
- 2017-2019 **Rock Wall Setter**, UCI Anteater Recreational Center
- Summer 2017 **UCI Organizer**, End of Term Archiving Hackathon (#DataRefuge)
- 2017 **Volunteer Gardener**, UCI Sustainable Polycultures Project
- 2016-2017 **Volunteer Robot Inspector**, Vex Robotics Competitions
- 2016-2017 **Volunteer Builder**, UCI Aquaponics Club
- 2016 **Course Completion**, American Alpine Institute – Alpine Rock Climbing
- 2015-2017 **Trail Volunteer**, Mid-Atlantic Climbers Association
- 2013 **Guest Panel Speaker**, STEM Girl Power
- 2013, 2014 **Guest Speaker and Volunteer**, UMBC CWIT Bits and Bytes Retreat For High School Girls
- 2013 **Donation Coordinator**, Maryland Food Bank CWIT Scholars
- 2012, 2015 **Treasurer '15-16, Secretary '14-15**, UMBC Rock Climbing Club