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| CV | STACY M. BRANHAM | sbranham@uci.edu |
| stacybranham.com |

# EDUCATION

### 2014 Ph.D., Computer Science, Virginia Tech (VT) – Blacksburg, VA

Center for Human Computer Interaction

*Title: Designing Technologies for Empathic Communication*

### 2007 B.S., Computer Science, minor in Mathematics, Virginia Tech (VT) – Blacksburg, VA

# PROFESSIONAL EXPERIENCE

## Academic Appointments

2018- University of California, Irvine (UCI) - Irvine, CA  
Department of Informatics

*2018- Assistant Professor*

*2019-20 Interim Co-Faculty Director, Masters in HCI Design (MHCID)*

2014- University of Maryland, Baltimore County (UMBC) - Baltimore, MD  
Department of Information Systems

*2018- Adjunct Assistant Professor*

*2015-18 Lecturer*

*2014-15 Postdoctoral Researcher*

## Industrial Researcher Positions

2012 Fuji Xerox Palo Alto Laboratory (FXPal) - Palo Alto, CA  
Research Intern

2010 Intel Labs - Portland, OR  
Research Intern

2009 Fuji Xerox Palo Alto Laboratory (FXPal) - Palo Alto, CA  
Research Intern

## Industrial Practitioner Positions

2008 Meridium, Inc. - Roanoke, VA   
Usability Engineer

2007 Northrop Grumman - Chantilly, VA   
Software Engineer

2006-07 IBM - Raleigh, NC   
Software Developer

# GRANT FUNDING

## External (total: ~$15,891,577)

2021-24 $71,004 (total: $2,850,000) NSF BPC-AE

*AccessComputing Fourth Extension*PI: Richard Ladner, Co-PIs: Sheryl Burgstahler, **Stacy Branham**, Raja Kushalnagar, Elaine Short

2021-26 ~$11,000,000 (CHF10,000,000), Jacobs Foundation   
*CERES: Connecting the EdTech Research Ecosystem*PIs: Gillian Hayes, Candice Odgers, Co-Is: **Stacy Branham**, Stephen Schueller

2021-26 $549,858, NSF CAREER Award  
*Advancing Computing for Parents with Vision Impairments*PI: **Stacy Branham**

2020 ~$14,000, AIRA Tech Corp (in-kind donation)  
*100 Samsung J7 phones*  
PI: **Stacy Branham**

2020-22 $5,000, Teach Access   
*Curriculum Development Award*PI: **Stacy Branham**

2020-21 $50,000, Toyota Motor North America (TMNA) via UMBC subcontract   
*University Mobility Challenge: Designing Wayfinding Technologies that Blind and Older Individuals Can Trust – COVID Extension*  
PI: **Stacy Branham**

2019-21 $241,706 ($511,636 total), Toyota Motor North America (TMNA)   
*University Mobility Challenge: Designing Wayfinding Technologies that Blind and Older Individuals Can Trust*  
UCI PI: **Stacy Branham**; UMBC PI: Ravi Kuber

2019-21 $175,000, NSF CRII   
*Making Universally Usable Technologies to Enhance Parent-Child Co-Reading and Early Literacy Skills at Home*

PI: **Stacy Branham**

2018-19 $84,540, Maryland Industrial Partnerships (MIPS) and TRX Systems, Inc.  
*Smart Wayfinding and Navigation Using 3D Location*  
UMBC PI: **Stacy Branham**; TRX Systems, Inc. PI: Carol Politi (Ravi Kuber made PI upon my move to UCI)

2017-18 $356,657, NSF CRI  
*Flexible UI Instrumentation for Ubiquitous and Immersive Computing Environments*  
PI: Wayne Lutters; co-PIs: Anita Komlodi, Ravi Kuber, Helena Mentis, Andrea Kleinsmith;   
Senior Personnel: Amy Hurst, **Stacy Branham**

2016-18 $190,000, Toyota Engineering and Manufacturing North America (TEMA)  
*Hardware Design and Field Evaluation of an Ultra-Mobile Navigation Aid for Blind People*  
PI: Amy Hurst; co-PI: **Stacy Branham**

## Internal (total: $104,886)

2020-21 $75,000, School of Information and Computer Sciences Research Awards Program  
*Toward Stemming Accessibility Issues in Software*  
PI: Sam Malek; co-PIs: Iftekhar Ahmed, **Stacy Branham**

2016-17 $29,886, UMBC CoEIT Strategic Plan Implementation Grant Program   
*Revitalizing the CoEIT User Studies Lab*  
PI: Wayne Lutters; co-PIs: **Stacy Branham**, Amy Hurst, Andrea Kleinsmith, Anita Komlodi, Ravi Kuber, Helena Mentis

# AWARDS AND HONORS

### 2022 Distinguished Early Career Alumnus Award *Department of Computer Science, Virginia Tech*

### 2022 Digital Accessibility Innovator Campuswide Teaching Award *Office of the Vice Provost for Teaching and Learning, UCI*

### 2021 Named one of *Popular Science’s* “Brilliant 10” innovators in science and engineering

### 2021 NSF CAREER Award

### 2020 Nominated for the Dr. De Gallow Professor of the Year Award *Division of Teaching Excellence and Innovation, UCI*

### 2019 Best Paper Award Honorable Mention [C.16] *Conference on Designing Interactive Systems (****DIS****)*

### 2018-19 Provost’s Leadership Academy Member

### 2018 Recognition of Contribution to Diversity and Inclusion [J.5] *Computer-Supported Cooperative Work (****CSCW****)*

### 2018 Best Student Paper Award [C.15] *Conference on Computers and Accessibility (****ASSETS****)*

### 2018 Best Paper Award [C.12] *Conference on Human Factors in Computing Systems (****CHI****)*

### 2017 Honor Roll Member, Outstanding First-Year Student Advocate Award *National Resource Center for the First-Year Experience and Students in Transition*

### 2015 Best Paper Award [C.7] *Conference on Human Factors in Computing Systems (****CHI****)*

### 2012 Best Paper Award [C.6] *Conference on Designing Interactive Systems (****DIS****)*

### 2013 Systers Grace Hopper Conference Travel Scholarship

### 2009-12 Clare Boothe Luce Graduate Research Fellowship, $40,000 / year

### 2007 Grace Hopper Conference Travel Scholarship

### 2007 Senior Service Award *Department of Computer Science, Virginia Tech*

### 2005/06 CAMEO Scholarship, $1,500 / year

# PUBLICATIONS[[1]](#footnote-2)

## Journal Articles

### [J.6] \*Abdolrahmani, A., \*Storer, K.M., \*Mukkath Roy, A.R., Kuber, R., Branham, S.M. “Blind Leading the Sighted: Drawing Design Insights from Blind Users Towards More Productivity-Oriented Voice Interfaces.” *Transactions on Accessible Computing (****TACCESS****). January 2020, Article 18, 35 pages.*

### [J.5] \*Scheuerman, M., †Hamidi, F., Branham, S.M. “Safe Spaces or Safe Places? Unpacking Technology-Mediated Experiences of Safety and Harm with Transgender People.” *In Proceedings of the ACM on Human-Computer Interaction,* 2, **CSCW**, Article 155, November 2018, 27 pages. (acceptance rate: 26%, **Recognition of Contribution to Diversity and Inclusion** - top 2%)

### [J.4] Nathan, L., Thieme, A., Tatar, D., Branham, S.M. Special Issue Editorial: “Disruptions, Dilemmas & Paradoxes: Ethical Matter(s) in Design Research.” *Interacting with Computers (****IwC****)*, 29(1), January 2017, 9 pages.

### [J.3] \*Oh, U., Branham, S.M., Findlater, L., Kane, S. “Audio-Based Feedback Techniques for Teaching Touchscreen Gestures.” *Transactions on Accessible Computing (****TACCESS****)*, 7(3), November 2015, Article 9, 29 pages.

### [J.2] Carter, S., Adcock, J., Cooper, M., Branham, S.M. “Tools to support expository video capture and access.” *Education and Information Technologies*, 19(3) September 2014, 18 pages.

### [J.1] McCrickard, D.S., Wahid, S., Branham, S.M., Harrison, S. “Achieving both creativity and rationale: reuse in design with images and claims.” *Human Technology*, 7(2), January 2011, 14 pages.

## Conference Papers

### [C.24] \*Edwards, E.J., \*Polster, K.L., \*\*Tuason, I., Gilbert, M., Blank, E., Branham, S.M. “‘That’s in the eye of the beholder’: Layers of Interpretation in Image Descriptions for Fictional Representations of People with Disabilities*.” In Proceedings of the ACM SIGACCESS Conference on Computers & Accessibility (****ASSETS ‘21****)*, Online Virtual Conference, October 18-22, 2021. (acceptance rate: 29%) *to appear*

### [C.23] \*Storer, K., Branham, S.M. “Deinstitutionalizing Independence: Discourses of Disability and Housing in Accessible Computing.” *In Proceedings of the ACM SIGACCESS Conference on Computers & Accessibility (****ASSETS ‘21****)*, Online Virtual Conference, October 18-22, 2021. (acceptance rate: 29%) *to appear*

### [C.22] \*Abdolrahmani, A., \*Gupta, M.H., \*\*Vader, M.-L., Kuber, R., Branham, S.M. “Towards More Transactional Voice Assistants: Investigating the Potential for a Multimodal Voice-Activated Indoor Navigation Assistant for Blind and Sighted Travelers.” *In Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (****CHI ’21****)*, Online Virtual Conference (originally Yokohama, Japan), May 8-13, 2021. (acceptance rate: 26%)

### [C.21] \*Salehnamadi, N., \*Alshayban, A., \*Lin, J.-W., Ahmed, I., Branham, S.M., Malek, S. “Latte: Use-Case and Assistive-Service Driven Automated Accessibility Testing Framework for Android.” *In Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (****CHI ’21****)*, Online Virtual Conference (originally Yokohama, Japan), May 8-13, 2021. (acceptance rate: 26%)

### [C.20] \*Xu, Y., Branham, S.M., \*\*Deng, X., Collins, P., Warschauer, M. “Are Current Voice Interfaces Designed to Support Children's Language Development?” *In Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (****CHI ’21****)*, Online Virtual Conference (originally Yokohama, Japan), May 8-13, 2021. (acceptance rate: 26%)

### [C.19] \*Storer, K., Judge, T.K., Branham, S.M. “‘All in the Same Boat’: Tradeoffs of Voice Assistant Ownership for Mixed-Visual-Ability Families.” *In Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (****CHI ’20****)*, Online Virtual Conference (originally Honolulu, HI), April 25-30, 2020. (acceptance rate: 24%)

### [C.18] \*Gupta, M., \*Abdolrahmani, A., Majali, Y., Lazanga, M., Tarra, S., Patil, P., \*Mukkath Roy, A.R., \*Sinnarkar, S., Kuber, R., Branham, S.M. “Towards More Universal Wayfinding Technologies: Navigation Preferences Across Disabilities.” *In Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (****CHI ’20****)*, Online Virtual Conference (originally Honolulu, HI), April 25-30, 2020. (acceptance rate: 24%)

### [C.17] Branham, S.M., \*Mukkath Roy, A.R. “Reading Between the Guidelines: How Commercial Voice Assistant Guidelines Hinder Accessibility for Blind Users.” *In Proceedings of the ACM SIGACCESS Conference on Computers & Accessibility (****ASSETS ’19****)*, Pittsburgh, PA, October 28-30, 2019. (acceptance rate: 26%)

### [C.16] \*Storer, K., Branham, S.M. “That’s the Way Sighted People Do It: What Blind Parents Can Teach Technology Designers About Co-Reading with Children.” *In Proceedings of the ACM Conference on Designing Interactive Systems (****DIS ’19****),* San Diego, CA, June 23-28, 2019, 385-398. (acceptance rate: 25%, **Best Paper Award Honorable Mention** - top 2%)

### [C.15] \*Bennett, C., Brady, E., Branham, S.M. “Interdependence as a Frame for Assistive Technology Research and Design.” *In Proceedings of the ACM SIGACCESS Conference on Computers & Accessibility (****ASSETS ’18****)*, Galway, Ireland, October 22-24, 2018, 161-173. (acceptance rate: 26%, **Best Student Paper Award** - top 2.5%)

### [C.14] \*Abdolrahmani, A., Kuber, R., Branham, S.M. “‘Siri Talks at You’: An Empirical Investigation of Voice Activated Personal Assistant (VAPA) Usage by Individuals Who are Blind.” *In Proceedings of the ACM SIGACCESS Conference on Computers & Accessibility (****ASSETS ’18****)*, Galway, Ireland, October 22-24, 2018, 249-258. (acceptance rate: 26%)

### [C.13] Lee J.S., Dickey-Kurdziolek M., Branham, S.M. “A Design Provocation for Humble Designers and Empowered Users.” *In Proceedings of the Conference on Design, User Experience and Usability (****DUXU ’18****)*, Las Vegas, NV, July 15-20, 51-61.

### [C.12] †Hamidi, F., \*Scheuerman, M., Branham, S.M. “Gender Recognition or Gender Reductionism? The Social Implications of Automatic Gender Recognition Systems.” *In Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (****CHI ’18****)*, Montéal, Quebec, April 21-26, 2018, Paper 8, 1-13. (acceptance rate: 23%, **Best Paper Award** - top 1%)

### [C.11] Branham, S.M., \*Abdolrahmani, A., \*Easley, W., \*Scheuerman, M., \*\*Ronquillo, E., Hurst, A. “‘Is Someone There? Do They Have a Gun?’: How Visual Information About Others Can Improve Personal Safety Management for Blind Individuals.” *In Proceedings of the ACM SIGACCESS Conference on Computers & Accessibility (****ASSETS ’17****)*, Baltimore, MD, October 30 - November 1, 2017, 260-269. (acceptance rate: 26%)

### [C.10] \*Abdolrahmani, A., \*Easley, W., \*Williams, M., Branham, S.M., Hurst, A. “Embracing Errors: Examining How Context of Use Impacts Blind Individuals’ Acceptance of Navigation Aid Errors.” *In Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (****CHI ’17****)*, Denver, CO, May 6-11, 2017, 4158-4169. (acceptance rate: 25%)

### [C.9] Branham, S.M., Kane, S. “The Invisible Work of Accessibility: How Blind Employees Manage Accessibility in Mixed-Ability Workplaces.” *In Proceedings of the ACM SIGACCESS Conference on Computers & Accessibility (****ASSETS ’15****)*, Lisbon, Portugal, October 26-28, 2015, 163-171. (acceptance rate: 24%)

### [C.8] Branham, S.M., Kane, S. “Collaborative Accessibility: How Blind and Sighted Companions Co-Create Accessible Home Spaces.” *In Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (****CHI ’15****)*, Seoul, Korea, April 18-23, 2015, 2373-2382. (acceptance rate: 23%)

### [C.7] \*Buehler, E., Branham, S.M., \*Ali, A., \*\*Chang, J., \*\*Hofmann, M., Hurst, A., Kane, S. “Sharing is Caring: Assistive Technology Designs on Thingiverse.” *In Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (****CHI ’15****)*, Seoul, Korea, April 18-23, 2015, 525-534. (acceptance rate: 23%, **Best Paper Award** - top 1%)

### [C.6] Branham, S.M., Harrison, S.H., Hirsch, T. “Expanding the design space for intimacy: supporting mutual reflection for local partners.” *In Proceedings of the Conference on Designing Interactive Systems (****DIS ’12****)*, Newcastle, UK, June 2012, 220-223. (acceptance rate: 20%) (**Best Paper Award** - top 2%)

### [C.5] \*Lee, J.S., Branham, S.M., Tatar, D. “Processlessness: staying open to interactional possibilities.” *In Proceedings of the Conference on Designing Interactive Systems (****DIS ’12****)*, Newcastle, UK, June 2012, 78-81. (acceptance rate: 20%)

### [C.4] Carter, S., Adcock, J., Doherty, J., Branham, S.M. “NudgeCam: toward targeted, higher-quality media capture.” *In Proceedings of the ACM Conference on Multimedia (****MM ’10****)*, Firenze, Italy, October 2010, 615-618. (acceptance rate: 18%)

### [C.3] \*Wahid, S., Branham, S.M., McCrickard, D.S., Harrison, S. “Investigating the relationship between imagery and rationale in design.” *In Proceedings of the Conference on Designing Interactive Systems (****DIS ’10****)*, Aarhus, Denmark, August 2010, 75-84. (acceptance rate: 15%)

### [C.2] Branham, S.M., Golovchinsky, G., Carter, S., Biehl, J. “Let’s go from the whiteboard: supporting transitions in work through whiteboard capture and reuse.” *In Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (****CHI ’10****)*, Atlanta, Georgia, April 2010, 75-84. (acceptance rate: 22%)

### [C.1] \*Wahid, S., Branham, S.M., McCrickard, D.S., Harrison, S. “Picking up artifacts: storyboarding as a gateway to reuse.” *In Proceedings of the Conference on Human-Computer Interaction (****INTERACT ’09****)*, Uppsala, Sweden, September 2009, 528-541. (acceptance rate: 27%)

## Conference Poster & Workshop Papers (Lightly-Reviewed)

### [C-LR.14] \*Edwards, E.J., \*Sum, C.M., Branham, S.M. “Three Tensions Between Personas and Complex Disability Identities.” *In Extended Abstracts, ACM SIGCHI Conference on Human Factors in Computer Systems (****CHI EA ’20****)*, Honolulu, HI, April 25-30, 2020.

### [C-LR.13] \*Mukkath Roy, A.R., \*Abdolrahmani, A., Kuber, R., Branham, S.M. “Beyond Being Human: The (In)Accessibility Consequences of Modeling VAPAs After Human-Human Conversation.” *In Proceedings of the iConference (****iConference ’19****)*, Washington, D.C., Mar 31 - Apr 3, 2019, 1-5.

### [C-LR.12] \*\*Gupta, M., Kuber, R., Branham, S.M. “Towards Identifying and Classifying Navigation Strategies Among Individuals with Diverse Disabilities.” *In Proceedings of the iConference (****iConference ’19****)*, Washington, D.C., Mar 31 - Apr 3, 2019, 1-5.

### [C-LR.11] Branham, S.M., \*Bennett, C., Brady, E. “Interdependence: Cross-ability, Non-hierarchical Care-ing*.” Workshop on Sociotechnical Systems of Care, ACM CSCW Conference on Computer Supported Cooperative Work (****CSCW ’18****)*, Jersey City, NJ, Nov 3-7, 2018, 1-5.

### [C-LR.10] \*Abdolrahmani, A., \*Mukkath Roy, A.R., Kuber, R., Branham, S.M. “Blind People Are Power Users: An Argument for Centering Blind Users in Design of Voice Interfaces*.” Workshop on Accessible Voice, ACM CSCW Conference on Computer Supported Cooperative Work (****CSCW ’18****)*, Jersey City, NJ, Nov 3-7, 2018, 1-4.

### [C-LR.9] \*Scheuerman, M., \*Easley, W., \*Abdolrahmani, A., Hurst, A., Branham, S.M. “Learning the Language: The Importance of Studying Written Directions in Designing Navigational Technologies for the Blind.” *In Extended Abstracts, ACM SIGCHI Conference on Human Factors in Computer Systems (****CHI EA ’17****)*, Denver, CO, May 6-11, 2017, 2922-2928.

### [C-LR.8] \*Abdolrahmani, A., \*Easley, W., \*Williams, M., \*\*Ronquillo, E., Branham, S.M., Chen, T., Hurst, A. “Not All Errors are Created Equal: Factors that Impact Acceptance of an Indoor Navigation Aid for the Blind.” *In Extended Abstracts, ACM SIGACCESS Conference on Computers & Accessibility (****ASSETS EA ’16****),* Reno, NV, Oct 24-26, 2016, 301-302.

### [C-LR.7] \*Easley, W., Williams, M., \*Abdolrahmani, A., \*\*Galbraith, C., Branham, S.M., Hurst, A., Kane, S. “Let’s Get Lost: Exploring Social Norms in Predominately Blind Environments.” *In Extended Abstracts, ACM SIGCHI Conference on Human Factors in Computing Systems (****CHI EA ’16****)*, San Jose, CA, May 7-12, 2016, 2034-2040.

### [C-LR.6] Branham, S.M., Carter, S. “Who makes, shares Internet how-to videos?” *Workshop on Social Mobile Video and Panoramic Video*, Stanford, CA, September 2012, 1-2.

### [C-LR.5] Branham, S.M. “Couplehood as culture: exploring intimate couples through a domestic media space.” *Workshop on Connecting Families: New Technologies, Family Communication, and the Impact on Domestic Space (****GROUP ’10****)*, Sanibel Island, FL, November 2010, 1-4.

### [C-LR.4] Branham, S.M. “Picturestorming: ideation via ‘bits of life.’” *In Workshop on Artifacts in Design: Representation, Ideation, and Process (****CHI ’10****)*, Atlanta, GA, June 2010, 1-4.

### [C-LR.3] Branham, S.M., \*Wahid, S., McCrickard, D.S., Harrison, S. "A narrative on collaborative storyboarding." Poster Paper, *ACM Conference on Computer Supported Cooperative Work (****CSCW ’08****)*, San Diego, CA, November 2008, 1-2.

### [C-LR.2] McCrickard, D.S., Harrison, S., \*Wahid, S., Branham, S.M. “Putting creativity first––inspiring with image-based design rationale.” *In Workshop on Creativity and Rationale in Software Design*, University Park, PA, June 2008, 1-7.

### [C-LR.1] Branham, S.M., \*Wahid, S., McCrickard, D.S. "Channeling creativity: using storyboards and claims to encourage collaborative design." *In Workshop on Tools in Support of Creative Collaboration (****C&C ’07****)*, Washington DC, June 2007, 1-5.

## Book Chapters

### [BC.1] Branham, S.M., Harrison, S. “Designing for collocated couples.” *In: Neustaedter, C., Harrison, S., and Sellen, A., eds. Connecting families: the impact of new communication technologies on domestic life.* Springer, 2013, 15-36.

# OTHER WRITING

### [O.3] Prietch, S., Branham, S. “Toward a more accessible ACM SIGCHI community.” Interactions 28, 3, May - June 2021, 78.

### [O.2] Prietch, S., Branham, S.M. “Enhancing Accessibility in the ACM SIGCHI Research Community.” AccessComputing Newsletter. December 2020.

### [O.1] Trewin, S., Basson, S., Muller, M., Branham, S., Treviranus, J., Gruen, D., Herbert, D., Lyckowski, N., Manser, E. “Considerations for AI Fairness for People with Disabilities.” ACM SIGAI Newsletter - AI Matters volume 5, issue 3, September 2019, 40-63.

# INVITED TALKS

### [IT.14] “Innovating the Future of Work with Blind People.” HCI and the Future of Work and Wellbeing: A Series of Conversations. **Wellesley College**. April 22, 2021.

### [IT.13] “Five Myths About Designing Accessible Technology.” UCI@Google Speaker Series. **Google**, Irvine, CA. February 24, 2020.

### [IT.12] “Researching Accessible Tech with People with Disabilities.” AccessComputing monthly remote roundtable, **University of Washington**. May 23, 2019.

### [IT.11] “Marginalized People are “Expert" (not “Other") in Design.” Design@Large, **University of California, San Diego**. January 30, 2019.

### [IT.10] “Elevating Marginalized People from ‘Other’ to ‘Expert’ in AI Design.” AI Seminar, **University of Southern California**. November 30, 2018.

### [IT.9] “From Independence to Interdependence: A social narrative of assistive technology.” DUB Seminar, **University of Washington**. December 7, 2017.

### [IT.8] “From Independence to Interdependence: A social narrative of assistive technology.” CS Grad Seminar, **Virginia Tech**. November 17, 2017.

### [IT.7] “From Independence to Interdependence: A social narrative of assistive technology.” HCIL Brown Bag Lunch, **University of Maryland, College Park**. September 14, 2017.

### [IT.6] “Response to Daniela Rosner’s ‘Critical Fabulations.’” **HCIC**, Watsonville, CA. June 28, 2017.

### [IT.5] “Technology and Relationships: How IT design can change society.” **Towson University**, Towson, MD. November 11, 2014.

### [IT.4] “Empathic Communication Technologies.” **TEDxUMBC**. Catonsville, MD. September 13, 2014.

### [IT.3] “Couplehood as culture: exploring intimate couples through a domestic media space.” Center for HCI at **Virginia Tech**, Blacksburg, VA. November 12, 2010.

### [IT.2] “Let’s go from the whiteboard.” **FXPal** internal talk. Palo Alto, CA. July 29, 2009.

### [IT.1] “Virginia Tech’s AWC: students helping students.” **STARS Conference**, Auburn, AL. August 11, 2008.

# OTHER TALKS

### [OT.4] “Three Tips for Socially Inclusive Design.” Anthem Retreat, University of California, Irvine. January 8, 2020.

### [OT.3] “Why AI Needs AI (Accessibility Intelligence).” Anthem Blitz Talk, University of California, Irvine. April 19, 2019.

### [OT.2] “Empowering Faculty as Mental Health Allies.” Pitch to the Provost, Provost’s Leadership Academy, University of California, Irvine. May 3, 2019.

### [OT.1] “Enhancing Faculty Access to Mental Health Resources.” Pitch to the Chancellor, Provost’s Leadership Academy, University of California, Irvine. April 9, 2019.

# MEDIA COVERAGE & SCIENCE COMMUNICATION

### [M.9] Gourgey, B. “The Brilliant 10: The Most Innovative Up-and-coming Minds in Science.” Popular Science. September 20, 2021. https://www.popsci.com/science/brilliant-scientists-2021/

### [M.8] Blank, E., Gilbert, M., Branham, S.M., Edwards, E. “Adjusting the Focus: How inclusive imagery changes a product from being made for some, to being made for all.” Google Material.io Blog. September 16, 2021. https://material.io/blog/inclusive-imagery-at-google

### [M.7] Murray, S. “Expanding Technology Access to Support People with Visual Disabilities During the Pandemic.” UCI ICS Blog. December 15, 2020. https://www.ics.uci.edu/community/news/view\_news?id=1894

### [M.6] Murray, S. “Undergraduate Informatics Course Offers Real-World Lessons on Inclusive Human-Centered Design.” UCI ICS Blog. April 27, 2020. https://www.ics.uci.edu/community/news/view\_news?id=1755

### [M.5] Murray, S. “Advancing Accessible Technologies for All.” UCI ICS Blog. October 28, 2019. https://www.ics.uci.edu/community/news/view\_news?id=1645

### [M.4] Freedberg, J. “Campus Skinny - 4.29.19 - Academic Dispatch.” KUCI News. April 29, 2019. https://soundcloud.com/kucinews/campus-skinny-42919-academic-dispatch

### [M.3] Murray, S., “Trio of ICS Professors Preview Tech Trends for 2019.” UCI ICS Blog. January 29, 2019. https://www.ics.uci.edu/community/news/view\_news?id=1479

### [M.2] Hamidi, F., Scheuerman, M., Branham, S.M. “Can Gender Be Computed?” NPR and Scientific American via The Conversation. May 15, 2018.

### [M.1] Branham, S.M. “You should talk about politics this Thanksgiving – here’s why, and how.” TIME and Business Insider (now Insider) via The Conversation. November 23, 2016.

# PATENTS

### [P.2] Carter, S., Cooper, M.L., Adcock, J., **Branham, S**. Systems and methods for creating and using navigable spatial overviews for video through video segmentation based on time metadata and camera orientation metadata. US Patent 10,629,243, 2020.

### [P.1] Carter, S., Cooper, M.L., Adcock, J., **Branham, S**. Systems and methods for creating and using navigable spatial overviews for video. US Patent 9,892,761, 2018.

# TEACHING EXPERIENCE

## Courses Taught

#### University of California, Irvine

Sp 2022 <On Leave>

Wi 2022 <On Leave>

Fa 2021 <On Leave>

Sp 2021 <Course Buyout>

Wi 2021 Instructor (80) IN4MATX 132 Projects in Human-Computer Interaction

Fa 2020 Co-Instructor (41) IN4MATX 280 Overview of Human-Computer Interaction and Design

Sp 2020 Co-Instructor (14) IN4MATX 299 Moving Human Subjects Research Online

Wi 2020 Instructor (298) IN4MATX 131 Introduction to Human-Computer Interaction

Wi 2019 Instructor (281) IN4MATX 131 Introduction to Human-Computer Interaction

Fa 2018 Instructor (14) IN4MATX 201 Research Methods for Informatics

#### University of Maryland, Baltimore County

Sp 2018 Instructor (23) HCC 728 Online Communities

Instructor (42) IS 300 Management Information Systems

Fa 2017 Instructor (40) COMP 101 Computational Thinking and Design

Instructor (37) COMP 101 Computational Thinking and Design

Instructor (35) COMP 101 Computational Thinking and Design

Sp 2017 Instructor (23) HCC 629 Introduction to Human-Centered Computing

Instructor (46) IS 300 Management Information Systems

Fa 2016 Instructor (38) COMP 101 Computational Thinking and Design

Instructor (32) COMP 101 Computational Thinking and Design

Instructor (31) COMP 101 Computational Thinking and Design

Sp 2016 <On Leave>

Fa 2015 Instructor (39) COMP 101 Computational Thinking and Design

Instructor (37) COMP 101 Computational Thinking and Design

Instructor (33) COMP 101 Computational Thinking and Design

Sp 2015 Instructor (29) HCC 629 Introduction to Human-Centered Computing

#### Virginia Tech

Fa 2008 Graduate TA CS 1705 Introduction to Object-Oriented Development

Sp 2008 Graduate TA CS 1705 Introduction to Object-Oriented Development

Fa 2007 Graduate TA CS 1705 Introduction to Object-Oriented Development

Fa 2006 Undergrad. TA CS 1044 Introduction to Programming in C++

Fa 2005 Undergrad. TA CS 1044 Introduction to Programming in C++

## Student Supervision

#### PhD Dissertation Advising (Primary Advisor)

2021- Cameron Cassidy (Chair)

2020- Julie Oh (Chair)

2020- Maya Gupta (Chair)

2019- Emory Edwards (Chair, expected Spring 2023)

2018-22 Kevin Storer (Chair, graduated Spring 2022)

2017-21 Ali Abdolrahmani (Co-Chair, graduated Spring 2021)

#### Master’s Thesis Advising (Primary Advisor)

2019-20 Maya Gupta (Chair, moved to doctoral program before completion)

2018-19 Antony Rishin Mukkath Roy (Co-Chair)

2016-18 Morgan Scheuerman (Chair)

#### Master’s Advising (Non-Thesis, Primary Advisor)

2020- Ethan Vu

2020- Mayra Cortez

#### PhD Dissertation Advising (Committee Member)

2022 Brittany Lewis (University of Rhode Island)

2021- Zeynep Yildiz (Koç University - Qualification Exam)

2021 Adriana Meza Soraia (UCI - Advancement)

2021 Cara Wilson (QUT - Final Defense)

2020- Navid Salehnamadi (Advancement)

2020- Abdulaziz Alshayban (UCI - Advancement)

2019-21 Ying Xu (UCI - Final Defense)

2019- Jazette Johnson (UCI - Comprehensive Exam, Advancement, Proposal Defense)

2019 Phoebe Chua (UCI - Advancement)

2019-21 Krithika Jagannath (UCI - Advancement, Proposal Defense)

2019-21 Mark Baldwin (UCI - Proposal Defense, Final Defense)

2019- Yenda Prado (UCI - Proposal Defense)

2019 Leah Horgan (UCI - Advancement)

2019-20 Sarah Ng (UCI - Comprehensive Exam)

2018-20 Yao Du (UCI - Advancement, Proposal Defense, Final Defense)

2018-19 Ke Jing (UCI - Comprehensive Exam)

#### Master’s Advising (Committee Member)

2021 Anirudh Nagraj (UMBC - Committee Member, Final Defense)

#### Graduate Research Advising

2020-21 Kyle Polster

2019-21 Cella Sum

2016-17 Caroline Brunschwyler

#### Undergraduate Research Advising

2021- Dulce Garfias

2021- Hannia Lizeth Aguiar

2021- Lisbet Aviluz-Gomez

2021- Melanie Guerrero

2021- Ahtziri Sanchez

2021- Alexa Wang

2021- Alissen Trinh

2021- Amie Le

2021- Kavan Dharia

2021- Megan Kosai

2021- Sabrina Tran

2021- Sahil Jagad

2021- Sophia Tran

2021- Vivian Chu

2021- Vivian Lin

2021- Ying Wu

2020- Isabel Tuason

2020- Abby Liu

2020 Julie Oh

2020 Ethan Vu

2019-20 Humaira Niazi

2019-20 Ethel Wong

2019-20 Lenah Syed

2019-20 Iqra Abbaali

2019-20 Sumah Faqhir

2019-20 Srilakshmi Godavarti

2019 Sangyeong Lee (I-SURF)

2019 Dakyung Go (I-SURF, co-supervisor)

2019 Seunghyun Kim (I-SURF)

2019-20 Andrew Tumang

2019-20 Mayra Cortez

2018-20 Hipolito Ruiz

2018-20 Saadia Karim

2018- Ana Sathish

2018-19 Alyssa Decampo

2018-19 Brigette Giles

2018-20 Samhitha Tarra (IN4MATX199)

2018-20 Kristen Can

x2018-19 Jessica Salimbangon

2018 Charles Yan (ICS 90)

2018 Tiffany (Yu-Wei) Tseng (ICS 90)

2018 Robert Maldonado (ICS 90)

2018 Areba Hazari (ICS 90)

2018 Deone Peng (ICS 90)

2017-19 Marc Lazanga

2016, 17-19 Maya Gupta

2017-19 Kyle Lee

2016, 17-18 Yasmin Majali

2017-18 Zoya Trendafilova

2017 Amanda Ali

2017 Sarah Alvarez

2017 Emily Rivera

2016-17 Ghayas Akbar

2016-17 Liz Saloka (INDS thesis advisor)

2016 Michelle Jung

2016 Steven Herrera

2015-17 Erick Ronquillo

2015-16 Braxton Dubin

2015-16 Niara Comri

# OTHER TEACHING ACTIVITIES

### [OTA.16] “Researching Accessible Futures in Computing.” Workshop at OurCS@AccessComputing+CREATE. Online virtual conference. **University of Washington**, Seattle, WA. January 13-15, 2021.

### [OTA.15] “Is Tech Ableist? How to Make Technology More Equitable for People with Disabilities.” In collaboration with Julie Oh\* and Cella Sum\*. Online virtual event. Center for Women in Technology and The Women’s Center, **UMBC**, Baltimore, MD. October 9, 2020.

### [OTA.14] “How Does a Blind Person Use a Touchscreen Phone?” ICS H197: Honors Seminar taught by Rich Lathrop. Online virtual lecture. **UCI**, Irvine, CA. October 7, 2020.

### [OTA.13] “Is Tech Ableist? An Instagram Live Conversation.” Online virtual event. Center for Women in Technology and The Women’s Center, **UMBC**, Baltimore, MD. October 6, 2020.

### [OTA.12] “Find Your People and Invite Yourself.” This Is What a Scientist/Engineer Looks Like. **UCI**, Irvine, CA. February 5, 2020.

### [OTA.11] “Designing Co-Reading Technologies for (Blind) Parents and Their Children.” Connected Learning Lab Dialog. **UCI**, Irvine, CA. December 10, 2019.

### [OTA.10] “Why Smart Speakers are Not Dumb.” UCI Brews and Brains. Costa Mesa, CA. October 15, 2019.

### [OTA.9] “What Being a Woman in Computing Has Taught Me About Building Technology for Good.” I-SURF. **UCI**, Irvine, CA. August 23, 2019.

### [OTA.8] “Ethics, Design, and Technology: Don’t Forget People with Disabilities.” IN4MATX H81: Ethics, Technology, and Design taught by Katie Salen Tekenbaş. **UCI**, Irvine, CA. May 23, 2019.

### [OTA.7] “Accessible Software Development.” MHCID. **UCI**, Irvine, CA. March 28, 2019.

### [OTA.6] “What Being a Woman in Computing Has Taught Me About Building Technology for Good.” ICS 90: New Student Seminar taught by Rich Pattis. **UCI**, Irvine, CA. October 17, 2018.

### [OTA.5] “Mediated Marginality: How IT Marginalizes and Empowers in Interpersonal Relationships.” MCS 101: Media Literacy taught by Kristen Anchor. **UMBC**, Baltimore, MD. March 29, 2017.

### [OTA.4] “Mediated Marginality: How IT Marginalizes and Empowers in Interpersonal Relationships.” MCS 101: Media Literacy taught by Kristen Anchor. **UMBC**, Baltimore, MD. March 28, 2017.

### [OTA.3] “Technology and Relationships: How IT design can change society.” HCC 629 taught by Ravi Kuber. **UMBC**, Baltimore, MD. December 1, 2014.

### [OTA.2] “Technology and Relationships: How IT design can change society.” IS 803 taught by Anita Komlodi. **UMBC**, Baltimore, MD. October 17, 2014.

### [OTA.1] “Design cultures in computer science.” Design Cultures taught by Matthew Wisnioski. **Virginia Tech**, Blacksburg, VA. March 13, 2012.

# SERVICE

## Professional Service

#### ACM SIGCHI Executive Committee Volunteering

2020- Adjunct Chair for Accessibility

#### Conference Organizing Committee Member

2022- Co-Chair, Papers Subcommittee on Accessibility and Aging, CHI

2022 ACM Partnerships Chair, ASSETS

2021 Co-Chair, Mentoring, ASSETS

2019 Co-Chair, Diversity and Accessibility, DIS / C&C (collocated)

2019 Chair, Accessibility, SIGCSE

2018 Co-Chair, Local Arrangements, SIGCSE

2017 Co-Chair, Student Research Competition, ASSETS

#### Conference Program Committee Member

2022 Member, Program Committee, CHIWORK

2021- Member, Program Committee, ASSETS

2021 Associate Chair, Papers, CHI

2020 Member, Program Committee, ASSETS

2019 Member, Program Committee, ASSETS

2019 Associate Chair, Papers, DIS

2019 Associate Chair, Papers, CHI

2018 Member, Program Committee, ASSETS

2018 Associate Chair, Papers, CHI

2012 Associate Chair, Works-in-Progress, CHI

2011 Associate Chair, Works-in-Progress, CHI

#### Plenary Speaker

2022 CMD-IT/ACM Richard Tapia Celebration of Diversity in Computing Conference

#### Invited Panelist

2019 Designing Change and Changing Design, DIS

2019 Social Impact Panel, CHI

#### Conference Workshop Organizer

2019 AI Fairness for People with Disabilities, ASSETS

2018 Inclusive Educational Technologies: Emerging Opportunities for People with Visual Impairments, CHI

2016 Ethical Encounters in Human-Computer Interaction, CHI

2014 Co-creating and Identity-Making in CSCW: Revisiting Ethics in Design Research, CSCW

#### Conference Panel Organizer

2011 Time strikes, we strike back: time management for female computer scientists, GHC

#### Conference Session Chair

2021 Chair, Social Justice // More than Human Interaction, CHI

2020 Co-Chair, Paper Session 2: Perspectives on Accessibility, ASSETS

2019 Chair, Paper Session 6: Touchy Feely, ASSETS

2019 Chair, Conversational Agents, DIS

2019 Chair, Gendered Considerations, DIS

#### Journal Guest Editor

2020-21 TACCESS, Special Issue on AI Fairness and People with Disabilities (merged into regular issue)

2015 Interacting with Computers, Special Issue on Ethics Matter(s) in Design Research

#### Journal Reviewer

2020 ACM Transactions on Human-Computer Interaction (TOCHI)

2019-20 ACM Transactions on Accessible Computing (TACCESS)

2015 Interacting with Computers

2013 Transactions on Affective Computing

#### Book Proposal Reviewer

2018 Oxford University Press

#### Conference Paper Reviewer

2015- ASSETS

2014- CSCW

2012- DIS

2010- CHI

2021 IDC

2019 INTERACT

2013,15 Mobile HCI

2015 GI

2013 RO-MAN

#### Proposal Reviewer

2022 NSF review panel member (Winter)

2021 NSF review panel member (Winter)

2018 NSF review panel member (Winter)

2018 NSF review panel member (Spring)

#### Scholarship Reviewer

2017 NCWIT Aspirations in Computing

2012-14 ACM Richard Tapia Conference Scholarship

#### Student Research Competition Judge

2019 ASSETS 2019

#### Educational Materials Contributor

2019 HCI Guidelines for Gender Equity and Inclusivity, initiator and co-author

2012-13 Systers Blog

## Departmental Service

2022- Member, Hiring and Recruiting Work Group

2018- Member, Informatics Major Steering Committee

2020 Member, Informatics Faculty Hiring Committee

2018-19 Member, Informatics Graduate Admissions Committee

2018 Member, Curriculum Assessment Committee (UMBC)

2015-18 Member, Undergraduate Studies Committee (UMBC)

2015-18 Academic Advisor (~200 undergraduate students) (UMBC)

2016-17 Facilities Manager, Interactive Systems Research Center (UMBC)

2008-09 Webmaster, Association for Women in Computing (Virginia Tech)

2005-08 President, Association for Women in Computing (Virginia Tech)

2008 Member, Diversity Committee (Virginia Tech)

## School/College Service

2021 Member, Informatics Chair Search Advisory Committee

2018-19 Member, Provost’s Leadership Academy (by nomination)

2018 Speaker, ICS Dean’s Leadership Council Meeting

2016-18 Member, Center for Women in Technology Advisory Board (UMBC)

2017 Reviewer, Center for Women in Technology Scholars Selection Day (UMBC)

## University Service

2022- Member, Council on Educational Policy (CEP)

2022- Member, Strategic Planning Steering Committee

2020- Member, IT Accessibility Committee

2019- Member, Physical Accessibility Committee

2019-20 Advisor, Through Inclusive Eyes (TIE) student organization

2018 Speaker, Interdisciplinary Faculty Social Hour (UMBC)

2018 Speaker, Grand Challenges Scholars Recruiting Event (UMBC)

2017-18 Member, Classrooms Committee (UMBC)

2016-18 Organizer, NCWIT Aspirations in Computing, Maryland Affiliate (UMBC)

2016-18 Member, Women’s Center Advisory Board (UMBC)

2016-17 Speaker, Retriever Day, Summer Preview Day, Orientation, Just for Juniors (UMBC)

2016 Panelist, Training Session for Undergraduate Admissions (UMBC)

## Community Service

2019- Member, Voting Accessibility Advisory Committee, Orange County Registrar of Voters

2014-15 Volunteer, Columbia Lighthouse for the Blind

1. In my field, top-tier conference publications undergo a rigorous peer-review and revision process and are therefore highly valued. Author names are generally listed in order of descending effort towards writing and framing the scientific contribution, with those who funded and managed the work appearing last. Co-authors’ degree of professional preparation is denoted as follows: †postdoc, \*graduate student, \*\*undergraduate student. [↑](#footnote-ref-2)