

Foad Hamidi

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Education

Ph.D. in Computer Science, York University, Toronto, 2016

Dissertation: Rafigh: A Living Media System for Motivating Target Application use for Children

Supervisor: Dr. Melanie Baljko

M.Sc. in Computer Science, York University, Toronto, 2007

Thesis: Cost-Based Analysis and Automatic Derivation of Containment Hierarchies for Text Composition Facilities

Supervisor: Dr. Melanie Baljko

Specialized Honours BA in Computer Science, York University, Toronto, 2004

Academic Appointments

University of Maryland, Baltimore County (UMBC)

Assistant Professor, 2019-present

Lab Director, Designing pARTicipatory futuErs (DARE) Lab, 2019-present

Research Assistant Professor, 2018-2019

Postdoctoral Research Associate, Mentor: Dr. Amy Hurst, 2016-2018

York University, Toronto

Research Assistant, GaMaY Lab, 2008-2016

Course Director, York University, Toronto, 2012

Teaching Assistant, York University, Toronto, 2008 – 2014

University of Seville, Spain

Visiting Researcher, TAIS Research Group, 2015

Bhutan Innovation and Technology Center, Thimphu

Overseas Expert, 2013

University of Victoria, Victoria, Canada

Assistive Technology Developer, UVATT, 2007

Awards and Recognitions

Best Paper Nomination, International Cross-Disciplinary Conference on Web Accessibility (W4A), 2020

Recognition of Contribution to Inclusion and Diversity at CSCW, 2018

Best Paper Award, ACM Conference on Human Factors in Computer Systems (CHI), 2018

Best Paper Nomination, ACM SIGACCESS Conference on Computers and Accessibility (ASSETS), 2017

Bridgable “Bridge the Gap Award” for TalkBox system, 2014

EECS Graduate TA Teaching Excellence Award, 2014

Bachelor of Art with Cum Laude Honours, 2004


Honorable Mention, The ACM East Central North American Programming Contest, 2004

York University Faculty of Arts Sessional Academic Achievement List, 2001 & 2002

Publications

Note: In my field, full papers published in the proceedings of the top-ranked, highly selective conferences are viewed as equally (if not more) important than journal articles. These are highly peer reviewed and are considered archival publications. For a study of the impact of conference proceedings in my field, see Conference Paper Selectivity and Impact: <http://dl.acm.org/citation.cfm?id=1743546.1743569>. Paper acceptance rates are indicated when they are publicly available.

Peer-Reviewed Journal Papers

- [1] Merritt, T., **Hamidi, F.**, Alistar, M., Menezes, M. 2020. Living Media Interfaces: A Multi-Perspective Analysis of Biological Materials for Interaction. *Digital Creativity*, 30 (1), 1-21.
-  [2] Scheuerman, M., Branham, S., and **Hamidi, F.** 2018. Safe Spaces and Safe Places: Unpacking Technology-Mediated Experiences of Safety and Harm with Transgender People. *Proceedings of the ACM on Human-Computer Interaction*, Vol. 2, CSCW, Article 155. (**Recognition of Contribution to Diversity and Inclusion**).
- [3] Easley, W., **Hamidi, F.**, Lutters, W., and Hurst, A. 2018. Shifting Expectations: Understanding Youth Employees’ Handoffs in a 3D Print Shop. *Proceedings of the ACM on Human-Computer Interaction*, Vol. 2, CSCW, Article 47.
- [4] **Hamidi, F.**, Baljko, M., Kunic, T., and Feraday, R. 2015. TalkBox: A DIY Communication Board Case Study. *Journal of Assistive Technologies*, 9(4), 187-198.
- [5] **Hamidi, F.**, Baljko, M., Ecomomopoulos, C., Livingston, N., and Spalteholz, L. G. Co-designing a speech interface for people with dysarthria. 2015. *Journal of Assistive Technologies*, 9(3), 159-173.

- [6] Baljko, M. and **Hamidi, F.** 2014. Knowledge Co-creation and Assistive Technology. *Journal of Scholarly and Research Communication*, 5(4).
- [7] **Hamidi, F.** and Kapralos, B. 2009. A Review of Spatial Sound for Virtual Environments and Games with Graphics Processing Units. *The Open Virtual Reality Journal*, 1(1): 8-17.

Peer-Reviewed Conference Proceedings

- [1] **Hamidi, F.**, Moulton, A., Grimes, S., Grimes, S., and Coy, A. 2020. Using Retrospective Surveys to Assess the Impact of Participating in an Afterschool Maker Learning Program on Youth. *Proceedings of the 2020 American Society of Engineering Education Conference and Exposition (ASEE'20)*, paper ID 29746.
- ♻ [2] **Hamidi, F.**, Poneris, K., Massey, A. and Hurst, A. 2020. Using a Participatory Activities Toolkit to Elicit Privacy Expectations of Adaptive Assistive Technologies. *Proceedings of the 17th International Cross-Disciplinary Conference on Web Accessibility (W4A'20)*. New York, NY: ACM Press, 17:1-17:12 (**Best Paper Award Nomination**).
- [3] **Hamidi, F.**, Kumar, S., Dorfman, M., Ojo, F., Kottapalli, M., and Hurst, A. 2019. SenseBox: A DIY Prototyping Platform to Create Audio Interfaces for Therapy. *Proceedings of the 13th International Conference on Tangible, Embedded and Embodied Interaction (TEI'19)*, New York, NY: ACM Press, 25-34.
- [4] **Hamidi, F.**, Mbullo, P., Onyango, D., Hynie, M. McGrath, S., and Baljko, M. 2018. Participatory Design of DIY Digital Assistive Technologies in Western Kenya. *Proceedings of the 2nd African Human-Computer Interaction Conference (AfriCHI'18)*, New York, NY: ACM Press, 78-88.
- [5] **Hamidi, F.**, Poneris, K., Massey, A., and Hurst, A. 2018. Who Should Have Access to my Pointing Data? Privacy Tradeoffs of Adaptive Assistive Technologies. *Proceedings of the 20th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '18)*, New York, NY: ACM Press, 203-216. Paper acceptance rate 26%.
- [6] **Hamidi, F.**, Easley, W., Grimes, S., Grimes, S., and Hurst, A. 2018. Youth Attitudes Towards Assessment Tools in After-school Informal Learning and Employment Training Programs. *Proceedings of the 2018 American Society of Engineering Education Conference and Exposition (ASEE'18)*, paper ID 21422.
- [7] Martin-Hammond, A., **Hamidi, F.**, Bhalerao, T., Ortega, C., Ali, A., Hornback, C., Means, C., and Hurst, A. 2018. Designing an Adaptive Web Navigation Interface for Users with Variable Pointing Performance. *Proceedings of the 15th International Cross-Disciplinary Conference on Web Accessibility (W4A'18)*. New York, NY: ACM Press, 16:1-16:10. Paper acceptance rate 35%.
- ♻ [8] **Hamidi, F.**, Scheuerman, M., and Branham, S. 2018. Gender Recognition or Gender Reductionism? The Social Implications of Automatic Gender Recognition Systems.

Proceedings of the 2018 CHI Conference on Human Factors in Computing Systems (CHI '18). New York, NY: ACM Press, 8:1-8:13. Paper acceptance rate 25%. (**Best Paper Award, Top 1%**).

- ⊘ [9] **Hamidi, F.**, Baljko, M., and Gómez, I. 2017. Using Participatory Design with Proxies with Children with Limited Communication. *Proceedings of the 19th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '17)*. New York, NY: ACM Press, 250-259. Paper acceptance rate 22%. (**Best Paper Award Nomination**).
- [10] **Hamidi, F.**, Grimes, S., Grimes, S., Wong, C. and Hurst, A. 2017. Assessment Tools for an Afterschool Youth Maker Program. *Proceedings of the 2017 Conference on Creativity and Fabrication in Education (FabLearn'17)*. New York, NY: ACM Press, 12:1-12:4. Paper acceptance rate 42%.
- [11] **Hamidi, F.** and Baljko, M. 2017. Engaging Children Using a Digital Living Media System. *Proceedings of the 2017 Conference on Designing Interactive Systems (DIS'17)*. New York, NY: ACM Press, 711-723. Paper acceptance rate 24%.
- [12] Haworth, B., Usman, M., Baljko, M. and **Hamidi, F.** 2016. The Use of Working Prototypes for Participatory Design with People with Disabilities. *Proceedings of the 14th International Conference on Computers Helping People with Special Needs (ICCHP'16)*, Berlin: Springer, 134-141. Paper acceptance rate 50%.
- [13] **Hamidi, F.** and Baljko, M. 2014. Subversive Interaction Design: Digital Design and Inspiration. *Proceedings of the 9th International Conference on Design and Emotion (DE'14)*, 25-31.
- [14] **Hamidi, F.**, Comeau, N., Saenz, K., and Baljko, M. 2014. HugBug: A Wearable Interface for Facilitating Digital Design for Children. *Proceedings of the 9th International Conference on Design and Emotion (DE'14)*, 706-709.
- [15] **Hamidi, F.**, Saenz, K., and Baljko, M. 2014. Sparkles of Brilliance: Incorporating Cultural and Social Context in Codesign of Digital Artworks. *Proceedings of the 2014 conference on Interaction design and children (IDC'14)*. New York, NY: ACM Press, 77-84. Paper acceptance rate 31%.
- [16] **Hamidi, F.** and Baljko, M. 2014. Rafigh: A Living Media Interface for Speech Intervention. *Proceedings of the 32nd Annual ACM Conference on Human Factors in Computing Systems (CHI'14)*. New York, NY: ACM Press, 1817-1820. Paper acceptance rate 26%.
- [17] **Hamidi, F.**, Baljko, M. Kunic, T., and Feraday, R. 2014. Do-It-Yourself (DIY) Assistive Technology: A Communication Board Case Study. *Proceedings of the 13th International Conference on Computers Helping People with Special Needs (ICCHP'14)*, Berlin: Springer, 287-294. Paper acceptance rate 50%.

- [18] **Hamidi, F.** and Baljko, M. 2012. Reverse-Engineering Scanning Keyboards. *Proceedings of the 13th International Conference on Computers Helping People with Special Needs (ICCHP'12)*, Berlin: Springer, 431-438. Paper acceptance rate 50%.
- [19] **Hamidi, F.** and Baljko, M. 2012. Using Social Networks for Multicultural Creative Collaboration. *Proceedings of the International Conference on Intercultural Collaboration (ICIC'12)*, New York, NY: ACM Press, 39-46. Paper acceptance rate 60%.
- [20] **Hamidi, F.**, Baljko, M., Livingston, N., and Spalteholz, L. 2010. CanSpeak: A Customizable Speech Interface for People with Dysarthric Speech. *Proceedings of the International Conference on Computers Helping People with Special Needs (ICCHP'10)*. Berlin: Springer, 605-612. Paper acceptance rate 50%.
- [21] Spalteholz, L., Lin, K. F., Livingston, N., and **Hamidi, F.** 2008. KeySurf: A Character Controlled Browser for People with Physical Disabilities. *Proceedings of the 17th World Wide Web Conference (WWW'08)*. New York, NY: ACM Press, 31-39. Paper acceptance rate 12%.

Peer-Reviewed Book Chapters

- [1] **Hamidi, F.**, Mbullo, P., Hynie, M., Baljko, M., and McGrath, S. 2017. Potentials of Digital Assistive Technology and Special Education in Kenya. In: C. Ayo, & V. Mbarika (Eds.), *Sustainable ICT Adoption and Integration for Socio-Economic Development*, 125-151. Hershey, PA: IGI Global.

Editorial Reviewed Works

- [1] **Hamidi, F.**, Scheuerman, M. and Branham, S. Gender is Personal – Not Computational. *The Conversation (May 2018)*. <https://theconversation.com/gender-is-personal-not-computational-90798> (>11k reads)
- [2] **Hamidi, F.**, Scheuerman, M. and Branham, S. Can Gender Be Computed? *Scientific American (May 2018)*. <https://www.scientificamerican.com/article/can-gender-be-computed/>
- [3] **Hamidi, F.** and Baljko, M. Inviting Silence: An Ambient Digital Living Media System in the Home. *interactions 25, 2 (Feb. 2018)*, 82-84.

Accepted Workshop Proposals

- [1] **Hamidi, F.**, Müller, C., Baljko, M., Schorch, M., Lewkowicz, M. and Stangl, A. Engaging with Users and Stakeholders: The Emotional and the Personal. *Proceedings of the 19th International Conference on Supporting Group Work (GROUP '16)*, 453-456, New York: ACM Press, 2016.

Invited Papers

- [1] **Hamidi, F.** 2020. DIY Assistive Technology Prototyping Platforms: An International Perspective. *IEEE Pervasive Health*, 18(4), 12-16.
- [2] **Hamidi, F.**, Saenz, K., and Baljko, M. Echoes of Diversity: Using Maker Activities to Support Children's Learning and Empowerment. *Revista DIS*, 29-38, 2017.
- [3] **Hamidi, F.**, and Baljko, M. Makers with a Cause: Fabrication, Reflection and Community Collaboration. *Proceedings of the International Conference on Distributed, Ambient, and Pervasive Interactions*, 49-61, 2015.

Conference Posters and Demos

- [1] **Hamidi, F.**, Grimes, S., Grimes, S., Moulton, A., and Coy, A. Scaling Informal Technology Education through Makerspaces. *2020 Conference for the American Society of Engineering Education (ASEE'20)*. Virtual, 2020.
- [2] Easley, W., McCoy, D., Grimes, S., Grimes, S., **Hamidi, F.**, Lutters, W., and Hurst, A. Scaling Informal Technology Education through Makerspaces. *Proceedings of the 2018 CSCW Conference Extended Abstracts (CSCW EA' 18)*, 221-224.
- [3] Poneres, K., **Hamidi, F.**, Massey, A., and Hurst, A. Using Icons to Communicate Privacy Characteristics of Adaptive Assistive Technologies. *Proceedings of the 19th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '18)*, 388-390.
- [4] Martin-Hammond, A., **Hamidi, F.**, Bhalerao, T., Ali, A., Hornback, C., Means, C., and Hurst, A. The Participatory Design of an Adaptive Interface to Support Users with Changing Pointing Ability. *Proceedings of the 19th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '17)*, 343-344 ACM, New York, NY, USA, 2017.
- [5] Baljko, M., Hynie, M., McGrath, S., **Hamidi, F.**, Oracha, P., Mbullo, P., and Onyango, D. Fabrication Lab in a Kit (FLiK): DIY Assistive Technology for Children with Disabilities in Kenya. *International Society for the Advancement of Science in Africa Conference (SASA)*, Kigali, Rwanda, 2017.
- [6] **Hamidi, F.**, Young, T. S., Sideris, J., Ardeshiri, R., Leung, J., Rezai, P., and Whitmer, B. Using Robotics and 3D Printing to Introduce Youth to Computer Science and Electromechanical Engineering. *Proceedings of the 2017 CHI conference Extended Abstracts on Human Factors in Computing Systems (CHI EA' 17)*, 942-950, ACM New York, 2017.
- [7] **Hamidi, F.**, Merino, M., Gomez, I., Lopez, S. Molina, A. and Baljko, M. A Wearable System for Multisensory Stimulation Therapy for Children. *Proceedings of the 2017 CHI conference Extended Abstracts on Human Factors in Computing Systems (CHI EA' 17)*, 1655-1662, ACM New York, 2017.

- [8] Hurst, A., Grimes, S., McCoy, D., Carter., N., Easley, W., **Hamidi, F.**, and Salib, G. Lessons Learned Creating Youth Jobs in an Afterschool Maker Space. *2017 Conference for the American Society of Engineering Education (ASEE'17)*. Columbus, OH, 2017.
- [9] **Hamidi, F.** and Baljko, M. Facebook use in Bhutan: A Comparative Study. *Graphics Interface Poster Proceedings (GI'14)*, 1-2, New York: ACM Press, 2014.
- [10] **Hamidi, F.** and Baljko, M. Rafigh: A Living Media Interface for Learning Games. *CHI '14 Extended Abstracts on Human Factors in Computing Systems (CHI EA '14)*. 407-410. New York: ACM Press, 2014.
- [11] **Hamidi, F.** and Baljko, M. Rafigh: An Edible Living Media Installation. *Proceedings of the 8th International Conference on Tangible, Embedded and Embodied Interaction (TEI '14)*. 345-346. New York: ACM Press, 2014.
- [12] **Hamidi, F.** and Baljko, M. Automatic Speech Recognition: A Shifted Role in Early Speech Intervention. *Proceedings of the 4th Workshop on Speech and Language Processing for Assistive Technologies (SPLAT'13)*, 55-61, 2013.
- [13] **Hamidi, F.**, Baljko, M., Moakler, A. and Gadot, A. Synchronum: A Tangible Interface for Rhythmic Collaboration. *Adjunct Proceedings of the 25th Annual Symposium on User Interface Software and Technology (UIST '12)*, 63-64, New York: ACM Press, 2012.
- [14] **Hamidi, F.**, and Baljko, M. Collaborative Poetry on the Facebook Social Network. *Proceedings of the International Conference on Supporting Group Work (GROUP10)*, 305-306. New York: ACM Press, 2010.
- [15] **Hamidi, F.** and Baljko, M. Speech Elicitation for Voice Banking using Augmented Everyday Objects. *Poster presented at the ALS society of Canada 6th Annual ALS Research Forum*, Toronto, Ontario, May 2010.
- [16] **Hamidi, F.** Using Interactive Objects for Speech Intervention. *SIGACCESS Accessible Computing 96*, 28-31, New York: ACM Press, January 2010.

Workshop Papers

- [1] **Hamidi, F.**, Massey, A., Easley, W., Mentis, H., and Hurst, A. Facilitating Privacy Conversations with Vulnerable Populations. *Workshop on Privacy and Power: Acknowledging the Importance of Privacy Research and Design for Vulnerable Populations*. April 2020 (online).
- [2] **Hamidi, F.**, Poneris, K., Massey, A., and Hurst, A. Perspectives of People with Essential Tremors on the Privacy of Adaptive Assistive Technologies. *Workshop on AI Fairness for People with Disabilities*. Pittsburgh, PA, USA, October 2019.

- [3] **Hamidi, F.**, Poneres, K., Massey, A., and Hurst, A. The User Privacy of Adaptive Assistive Technologies. *3rd Workshop on Inclusive Privacy and Security*. Baltimore, MD, USA, August 2018.
- [4] Scheuerman, M., **Hamidi, F.**, and Branham, S. (Ab)user-Centered Design? Considering the Involvement of Abusive Users in the Design Process. *Understanding “Bad Actors” Online*. Montreal, Canada, April 2018.
- [5] **Hamidi, F.** Universal Design: An Intercultural Perspective. *Accessing Higher Ground Conference*. Westminster, CO, USA, November 2017.
- [6] **Hamidi, F.**, Saenz, K., and Baljko, M. The Silent Language of Materials: Gender, E-Textiles and Mayan Weaving. *HCI across Borders Symposium (HCIxB)*, Denver, CO, May 2017.
- [7] **Hamidi, F.**, Saenz, K., and Baljko, M. Echoes of Diversity: Using Making for Empowerment and Learning. *MX Design Conference*, Mexico City, Mexico, October 2015.
- [8] **Hamidi, F.**, Mbullo, P., Hynes, M., Baljko, M., and McGrath, S., Digital Assistive Technology and Assistive Technology in Kenya: Potentials. *Medicine and Marginality Workshop*, Kisumu, Kenya, December 2014.
- [9] **Hamidi, F.**, and Baljko, M. Empowerment Through Interaction: A Living Media Interface for Children with Disabilities. Paper presented at the 2014 Interaction Design for Children with Disabilities Workshop (IDCD'14), June 2014.
- [10] **Hamidi, F.**, and Baljko, M. A Reverse-Huffman Algorithm for Text Entry Interface Evaluation. Paper presented at the CHI 2012 Workshop on Designing and Evaluating Text Entry Methods. Austin, Texas, May 2012.
- [11] **Hamidi, F.**, Spalteholz, L., and Livingston, N. Web-Speak: A Customizable Speech-Based Web Navigation Interface for People with Disabilities. Paper presented at the 23rd Annual International Technology & Persons with Disabilities Conference (CSUN'08), Northridge, California, March 2008.

Technical Reports

- [1] **Hamidi, F.** and Dorji, T. C. E-Work in Bhutan: Redefining Employment. Technical Report, Thimphu, Bhutan, May 2013.
- [2] **Hamidi, F.** Digital Tangible Games for Speech Intervention. Technical Report (CSE-2012-02), York University, Toronto, March 2012.

Online Publications

- [1] Hamidi, F., Branham, S. **The Diversity and Inclusion Lunch at the 2019 ACM C&C/DIS Conferences.** August 2019. Available online: <<https://medium.com/@fhamidi/the-diversity-and-inclusion-lunch-at-the-2019-acm-c-c-dis-conferences-318f0ccc9f37>>
- [2] Scheurman, M. Spiel, K., Haimson, O., Hamidi, F., Branham, S. **HCI Guidelines for Gender Equity and Inclusivity.** May 2019. Available online: < <https://www.morgan-klaus.com/sigchi-gender-guidelines>>
- [3] Hamidi, F. **CanSpeak: Co-Designing a Customizable Speech Interface for Computer Access.** *Enables.me*, December 2015. Available online: <<http://enables.me/canspeak-codesigning-a-customizable-speech-interface/>>

Press and Blog Mentions

- [1] Anderton, K. **DIY assistive technology prototypes can help people with disabilities to communicate.** 2020. <https://www.news-medical.net/news/20200211/DIY-assistive-technology-prototypes-can-help-people-with-disabilities-to-communicate.aspx>
- [2] TechXplore. **DIY tools TalkBox and SenseBox help people with disabilities to communicate.** 2020. <https://www.news-medical.net/news/20200211/DIY-assistive-technology-prototypes-can-help-people-with-disabilities-to-communicate.aspx>
- [3] Diário da Saúde. **Tecnologias assistivas do tipo Faça Você Mesmo.** 2020. <https://www.diariodasaude.com.br/news.php?article=tecnologias-assistivas-faca-voce-mesmo&id=14010>
- [4] Zepp, M. **DIY tools TalkBox and SenseBox help people with disabilities to communicate.** 2020. https://www.eurekalert.org/pub_releases/2020-02/uomb-dtt021120.php
- [5] Haimson, O. **Gender Inclusivity at SIGCHI.** 2018. <https://medium.com/@haimson/gender-inclusivity-at-sigchi-b1cbee213faf>
- [6] ACM CSCW Blog. **Safe Spaces and Safe Places: Unpacking Technology-Mediated Experiences of Safety and Harm with Transgender People.** 2018. <https://link.medium.com/qTEkoLmmGR>
- [7] UMBC Magazine. **Ideas Illuminated at 2018 Light City.** 2018. <https://magazine.umbc.edu/ideas-illuminated-at-2018-light-city/>
- [8] Radio Österreich 1 (Ö1). **Radiokolleg - Naturvergessenheit** (Audio Interview), 2018. <http://oe1.orf.at/programm/20180215/506630>
- [9] Ars Electronica. **Future Innovators Summit** (Video), 2018. <https://www.aec.at/ai/en/fis/> & <https://www.youtube.com/watch?v=NYE5gbkQtdc>

- [10]La Informacion. **Researchers from the University of Seville develop new technologies that improve the quality of life for the disabled** (in Spanish), 2016
<http://politahumming.blogspot.mx/2015/10/foad-hamidi-digital-design-for-social.html>
- [11]Polita. **Foad Hamidi, Digital Design for Social Good @ IBERO**, 2015.
<http://shr.gs/wkQ5ejF>
- [12]Lassonde School of Engineering news. **Lassonde Talkbox team wins top prize at Toronto Maker Faire**. 2014. <http://eecs.lassonde.yorku.ca/news/lassonde-talkbox-team-wins-top-prize-at-toronto-maker-faire/>
- [13]Lassonde School of Engineering news. **Lassonde Students Engineer Magic on a Global Stage**. 2014. <http://lassonde.yorku.ca/articles/lassonde-students-engineer-magic-global-stage>
- [14]less stuff:: more design. **Design & Emotion**. 2014.
<http://lessstuffmoredesign.blogspot.com/>
- [15]Chester, K. **A Bhutan tech primer: early signs of startups and e-commerce**. 2013.
<https://www.techinasia.com/bhutan-tech-startups-ecommerce-primer>
- [16]Dorji, S. **Talk by Mr. Foad Hamidi**, 2013.
http://sonamdorji505.blogspot.com/2013/05/talk-by-mr-foad-hamidi_10.html
- [17]Tollefsen, M. **Sound Control of the PC**. 2011. <http://medialt.no/news/en-US/sound-control-of-the-pc-summary-from-the-pilot-project/732.aspx>

Research Grants

External Grants

NSF RAPID: “Responding to COVID-19 using High-speed Mesh Wireless Community Internet”, UMBC PI: Foad Hamidi, under review (\$57,052, Collaborative, lead PI: Andrew Coy, total \$168,372)

NSF AISL: “Rec-to-Tech: Understanding the Role of Rec Center Educators in Creating Maker-based Technology and Computer Science Learning Hubs for Urban Youth”, UMBC PI: Foad Hamidi, under review (\$320,346, Collaborative, lead PI: Andrew Coy, total \$1,497,816)

SIGCHI Development Grant: “Diversity and Inclusion Lunch at the 2019 ACM C&C/DIS Conferences”, PI: Foad Hamidi, 2019 (\$5,107)

NSF MAKER: “Making Opportunities for Baltimore Inner City Youth in a 3D Print Shop”, PI: Foad Hamidi, PI transferred from Amy Hurst, 2018 (\$308,425)

NSF EAGER: MAKER: “Rec2Tech: Scaling Informal Technology Education through Makerspaces”, PI: Andrew Coy, Co-PI: Foad Hamidi, 2017 (\$249,960)

AccessEngineering Minigrant, DO-IT Program, University of Washington, 2017 (\$1000)

University of Seville’s visiting researcher grant, 2014 (\$1000)

Internal Grants - UMBC

Mikhail Dorfman (Student Fellow), Foad Hamidi (Faculty Research Advisor) – Undergraduate Research Award (URA), 2019 (\$600)

Fayokemi Ojo (Student Fellow), Foad Hamidi (Faculty Research Advisor) - McNair Scholars Spring Research Institute (SRI) Fellowship, 2019 (\$2800)

Fayokemi Ojo (Student Fellow), Foad Hamidi (Faculty Research Advisor) - The University System of Maryland's Louis Stokes Alliance for Minority Participation (USM LSAMP) Fellowship, 2019 (\$1500)

Internal Grants - York University

Fieldwork Cost Fund, 2014 (\$500)

Graduate Development Fund, 2014 (\$500)

ACM TE'12 Student Design Challenge Travel Grant, 2012 (\$3,000)

Graduate Development Fund, 2013 (\$500)

Faculty of Graduate Studies Bursary, 2009

York Graduate Scholarship, 2009

Faculty of Graduate Studies Bursary, 2006

ACM ASSETS'09 Doctoral Consortium Travel Grant, 2009

CUPE MA Bursary, 2006

Invited Keynotes, Talks and Symposia**Keynotes**

Hamidi, F. **Participatory Design for Emerging Technologies**. Invited keynote at the First Workshop on Multi-Cultural Human-Robot Interaction, AfriCHI'18, Windhoek, Namibia, December 2018.

Talks

Hamidi, F. **Designing Participatory Futures**. Invited talk at the Currents speaker series, Dresher Center, UMBC, Baltimore, MD, USA, April 2020.

Hamidi, F. **Participatory Design of Emerging Technologies**. Invited talk at University of Michigan, Ann Arbor, Michigan, USA, December 2019.

Hamidi, F. **Participatory Design of Emerging Technologies**. Invited talk at New York University (NYU), New York, New York, USA, July 2019.

Hamidi, F. **Participatory Design of DIY Digital Assistive Technology in Western Kenya**. Invited talk at Northwestern University, Chicago, USA, February 2019.

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Hamidi, F. **Participatory Design for Inclusion and Empowerment.** Invited talk at Virginia Tech, Blacksburg, USA, November 2018.

Hamidi, F. **Participatory Design for Inclusion and Empowerment.** Invited talk at James Madison University, Harrisonburg, USA, November 2018.

Hamidi, F. **Incorporating Stakeholder Perspectives When Designing Digital Systems.** Invited talk at the University of Toronto, Toronto, Canada, August 2018.

Hamidi, F. **Universal Making: Do-it-Yourself Assistive Technology.** Invited Ignite Talk at the 2018 Nation of Makers (NOMCON) Conference, Santa Fe, USA, June 2018.

Hamidi, F. **Transcending Invisible Lines.** Invited talk at the 2018 Labs @ Light City, Baltimore, USA, April 2018.

Hamidi, F. **Motivating User Agency through Caring and Acting.** Invited talk at the University of Maryland, College Park, Baltimore, USA, October 2017.

Hamidi, F. **Of Mushrooms and Alebrijes: Using Digital Media for Engagement and Participation.** Invited talk at the University of Maryland, Baltimore County, Baltimore, USA, August 2016.

Hamidi, F. **Digital Design for Social Good.** Invited talk at the Universidad Iberoamericana Ciudad de México, Mexico City, Mexico, October 2015.

Hamidi, F., Mbullo, P., Baljko, McGrath, S., M., and Hynes, M. **Community University Partnerships to Build Participatory Digital Assistive Technology Solutions in Kenya.** Society for the Advancement of Science in Africa Conference, Toronto, Canada, August 2015.

Hamidi, F. **Design Diversity: Co-Design for Inclusion and Empowerment.** Subtle Technologies, Toronto, Canada, May 2014.

Hamidi, F. **Technology and Happiness.** Invited talk at the Universidad Iberoamericana Ciudad de México, Mexico City, Mexico, November 2013.

Baljko, M. and Hamidi, F. **Knowledge Co-Creation and Assistive Technology.** Presentation at the York Symposium on the Scholarship of Engagement, York University, Toronto, October 2013.

Hamidi, F. **Technology and Happiness.** Invited talk at Electronic Technology Department, University of Seville, Seville, Spain, August 2013.

Hamidi, F. **Technology and Happiness.** Invited talk at Bhutan Media Lab, Thimphu, Bhutan, May 2013.

Foad Hamidi

Hamidi, F. **Technology and Happiness**. Invited talk at Royal Thimphu College, May 2013, Thimphu, Bhutan.

Hamidi, F. **Technology for Empowerment and Inclusion**. Invited talk at the University of Siegen. July 2012, Siegen, Germany.

Hamidi, F., and Amiri, S. **Digital Activism: Technology, Empowerment and Awareness**. Invited talk at Beit Zatoun, January 2012, Toronto, Ontario.

Hamidi, F. **Synchrum: A Collaborative Game**. Demo-talk at Maker Kids Toronto, November 2012, Toronto, Ontario.

Symposia

Consortium for the Science of Sociotechnical Systems Research (CSST) Summer Institute Fellow, New Brunswick, NJ, June 2019

Future Innovators Summit, Ars Electronica 2017, Linz, Austria, September 2017

Early Career Development Symposium, International Conference on Human Factors in Computing Systems (CHI'17), Denver, CO, May 2017

AccessEngineering Capacity Building Institute (CBI), Seattle, WA, April 2017

Teaching Experience

Courses

User Interfaces Prototyping and Development (HCC613). Instructor, University of Maryland, Baltimore County, Spring 2020

Human-Computer Interaction (HCC760). Instructor, University of Maryland, Baltimore County, Spring 2019

User Interfaces Prototyping and Development (HCC613). Instructor, University of Maryland, Baltimore County, Spring 2019

Fundamentals of Human-Computer Interaction (HCC303). Co-Instructor, University of Maryland, Baltimore County, Fall 2017

Human-Centered Computing Seminar (HCC810). Faculty Facilitator, University of Maryland, Baltimore County, Spring & Fall 2017, Spring 2018, Spring 2019, Fall 2019

Introduction to the Theory of Computation (CSE2001). Teaching Assistant, York University, Toronto, Summer 2014

Building Interactive Systems (CSE1720). Teaching Assistant, York University, Toronto, Winter 2014 & Winter 2013

User Interfaces (CSE3461). Teaching Assistant, York University, Toronto, Fall 2013 & Fall 2012

Software Design (CSE3311). Teaching Assistant, York University, Toronto, Fall 2013

Design and Analysis of Algorithms (CSE3101). Teaching Assistant, York University, Toronto, Winter 2013, Fall & Summer 2012

Hypermedia and Multimedia Technology (CSE4461). Course Director, York University, Toronto, Winter 2012

Guest Lectures

Inclusive Making (EECS397, 497) – Spring 2019

Fundamentals of Human-Computer Interaction (IS303) – Spring 2018

Developing Interfaces for Rehabilitation (HCC742) – Spring 2018

Fundamentals of Human-Centered Computing (HCC629) – Fall 2017

Developing Interfaces for Rehabilitation (HCC742) – Fall 2017

Fundamentals of Human-Computer Interaction (IS303) – Spring 2017

User Interface Prototyping and Development (HCC613) – Spring 2017

Community-Engaged Workshops

Hamidi, F., Mbullo, P., Hynie, M., McGrath, S., and Baljko, M. **Fabrication-Lab-in-a-Kit (FLiK) Workshop.** Kisumu, Kenya, June 2019.

Hamidi, F., Hynie, M., McGrath, S., Mbullo, P., Onyango, D., Oracha, P., and Baljko, M. **DIY-AT Community Building Workshop Facilitator Training.** Kisumu, Kenya, June 2017.

Baljko, M., Feraday, R., Hamidi, F., Kunic, T., Haworth, B., and Boeva, Y. **TalkMake: Making your own TalkBox Workshop.** Toronto Mini Maker Faire, Toronto, November 2014.

Mbullo, P., Hynes, M., McGrath, S., and Hamidi, F. **Partners in Transformation: Stakeholders Consultative Forum.** Kisumu, Kenya, June 2014.

Hamidi, F., Saenz, K. and Saenz, M. **Collaborative Digital Design Workshop.** Workshop in collaboration with Kopalli Arte Publico, Oaxaca, Mexico, June 2014.

Whitmer, B., Schmidt, R., Young, T., Hamidi, F., Rezai, P., Ardeshiri, R. and Leung, J. **Lassonde Technology Faire – 3D Printing Workshops.** Youth workshops organized by CIVDDD - ICTC, York University, Toronto, April 2014.

Foad Hamidi

Hamidi, F., Saenz, K. and Saenz, M. **Collaborative Digital Design Workshop**. Workshop in collaboration with Kopalli Arte Publico, Oaxaca, Mexico, November 2013.

Hamidi, F. and Baljko, M. **Collaborative MakeShop Sessions: Critical Maker Workshops**. York University, Toronto, September-December 2013.

Hamidi, F. and Whitmer, B. **Digital Design**. Youth workshop organized by CIVDDD - ICTC, York University, Toronto, Canada, November 2013.

Hamidi, F. **Effective Communication**. Workshop at Bhutan Innovation & Technology Centre, Thimphu, Bhutan, April 2013.

Hamidi, F., and Baljko, M. **Assistive Technology Research - Community Partnerships**. Workshop at the 13th International Conference on Computers Helping People with Special Needs (ICCHP'12), Linz, Austria, July 2012.

Public Engagements and Demonstrations

Baltimore UX Meetup, Baltimore, 2019

MDTAP TA Talks & Tours, MDTAP, 2019

PAD Lab tour, Bites & Bytes Day, UMBC, 2019

Capitol Hill Maker Faire, Washington DC, 2018

PAD Lab tour, Creative Coders, UMBC, 2017

PAD Lab tour, 2nd Annual Career Explorations in Computing, UMBC, 2017

ISRC table, Gadgets & Gears Day, Maryland Science Center, 2017

PAD Lab tour, National Center for Women & Information Technology, 2017

GaMaY Lab presentation, Toronto Mini Maker Faire, Toronto Public Library, 2014

Research Mentoring

Graduate Students

PhD Dissertation Advisor

William B. Easley, Human-centered Computing, UMBC, 2020 (with Dr. Helena Mentis) – Dissertation Title: “Understanding and Supporting Collaboration Between Youth in Technical Workplaces”

Master’s Thesis Advisor

Kellie Gable, Human-centered Computing, UMBC, 2018 (with Dr. Aaron Massey) – Thesis Title: “Exploring Older Adults’ Attitudes Towards Privacy of Adaptive Assistive Technologies”

Foad Hamidi

Morgan Scheuerman, Human-centered Computing, UMBC, 2017 (with Dr. Stacy Branham)
– Thesis Title: “Exploring Transgender Individuals’ Experience of Safety with Technology”

PhD Dissertation Examination Committee Member

Ali Abdolrahmani, Human-centered Computing, UMBC, 2019

Flynn Wolf, Human-centered Computing, UMBC, 2019

Master’s Thesis Examination Committee Member

Lydia Stamato, Human-centered Computing, UMBC, 2020

Independent Studies

Jason Charney, Human-centered Computing, UMBC, 2019

Pruti Vijaykumar, Human-centered Computing, UMBC, 2019

Amy Freeman, Human-centered Computing, UMBC, 2019

Kellie Gable, Human-centered Computing, UMBC, 2018

Sanjay Kumar, Human-centered Computing, UMBC, 2017

Tejas Bhalerao, Human-centered Computing, UMBC, 2017

Research Projects

Christopher Wong, Human-centered Computing, UMBC, 2017

Undergraduate Students

Independent Studies

Zulekha Karachiwalla, Computer Engineering, UMBC, 2020

Mikhail Dorfman, Mathematics, UMBC, 2018

Megha Kottapalli, Computer Science and Engineering, UMBC, 2017

Loryn Chen, Information Systems, UMBC, 2017

Li Yin, Lassonde School of Engineering, York University, 2016

Design and Research Competitions and Projects

Kai Wisner, Mechanical Engineering, UMBC, 2019

Fayokemi Ojo, Computer Science and Engineering, UMBC, 2018

Christian Ortega, Computer Engineering, Texas A&M University, 2017

Toni Kunic, Lassonde School of Engineering, York University, 2014

Chitiiran Krishna Moorthy, Lassonde School of Engineering, York University, 2014

Sonal Ranjit, Lassonde School of Engineering, York University, 2014

Alexander Moakler, Digital Media, York University, 2012

Assaf Gadot, Digital Media, York University, 2012

Internal Supervised Student and Teaching Presentations

Hamidi, F. **Using an Assistive Technology Prototyping Platform to Teach Human-Centered Computing.** Provost's Teaching & Learning Symposium, UMBC, 2019.

Ojo, F., Dorfman, M. Hamidi, F. **Creating Fabrication Instructions for a DIY Therapy Device.** 22th Annual Summer Undergraduate Research Fest, UMBC, 2019.

Ortega, C., Bhalerao, T., Hurst, A., and Hamidi, F. **Developing an Adaptation and Other Features for PINATA, a Chrome-based Adaptive User Interface Tool.** 20th Annual Summer Undergraduate Research Fest, UMBC, 2017.

Kottapalli, M., Kumar, S., and Hamidi, F. **A Customizable Open-source Assistive Technology for Communication.** 20th Annual Summer Undergraduate Research Fest, UMBC, 2017.

Academic Service

Departmental Service

UMBC AccessComputing Representative, 2020

UMBC AccessComputing Representative, 2019

UMBC Interactive Systems Research Center (ISRC) Faculty Advisor for Events, 2020

UMBC Interactive Systems Research Center (ISRC) Faculty Advisor for Events, 2019

UMBC Interactive Systems Research Center (ISRC) Faculty Advisor for Events, 2018

UMBC Interactive Systems Research Center (ISRC) Faculty Advisor for Events, 2017

External Service

Research Community Service

Program Committee Member, ACM Student Research Competition (SRC), 2020

Program Committee Member, ACM Conference on Computers and Accessibility (ASSETS), 2020

Accessibility and Diversity Co-Chair, ACM Conferences on Designing Interactive Systems (DIS'19) and Creativity & Cognition (C&C'19), 2019

Member of Organizing Committee, International Cross-Disciplinary Conference on Web Accessibility (Web4All), 2019

Student Research Competition Co-Chair, ACM Conference on Computers and Accessibility (ASSETS), 2019

Student Research Competition Judge, ACM Conference on Computers and Accessibility (ASSETS), 2018

Publications Peer-Review

Reviewer, IEEE Frontiers in Education (FIE), 2020

Reviewer, The International Conference on New Interfaces for Musical Expression (NIME), 2020

Reviewer, The International Conference on New Interfaces for Musical Expression (NIME), 2019

Reviewer, ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW), 2020

Reviewer, ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW), 2019

Reviewer, ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW), 2018

Reviewer, ASEE Annual Conference & Exposition, 2020

Reviewer, ASEE Annual Conference & Exposition, 2019

Reviewer, ASEE Annual Conference & Exposition, 2018

Reviewer, ACM Transactions on Accessible Computing (TACCESS), 2018

Reviewer, ACM Annual Conference on Human Factors in Computing Systems (CHI), 2019

Reviewer, ACM Annual Conference on Human Factors in Computing Systems (CHI), 2018

Reviewer, ACM Annual Conference on Human Factors in Computing Systems (CHI), 2017

Reviewer, ACM Annual Conference on Human Factors in Computing Systems (CHI), 2016

Reviewer, ACM Annual Conference on Human Factors in Computing Systems (CHI), 2015

Reviewer, International Journal of Human-Computer Studies, 2017

Reviewer, International Journal of Human-Computer Studies, 2016

Reviewer, Journal of Assistive Technologies, 2016

Reviewer, IEEE Potentials, 2015

Reviewer, IEEE Potentials, 2014

Panel Review

Reviewer for an NSF Proposal Review Panel, 2019

Reviewer for an NSF Proposal Review Panel, 2018

Reviewer for an NSF Proposal Review Panel, 2017

Art Projects and Performances

Rafigh: An Edible Living Media Installation. Ludwig-Maximilians-Universität München (LMU), Munich, Germany, February 17th - 19th, 2014.

Mountain Water. Entry in the International Centre for Integrated Mountain Development photo contest, 2013.

Liberation: An Interactive Video Installation, with Alexander Moakler, Assaf Gadot and Sahand Amiri. Digital Media Showcase, York University, Toronto, April 3rd, 2012.

New Music, New Poetry, with the Iranian Composers of Toronto (ICOT) featuring the Ton Beau String Quartet. St. George Anglican Church, Toronto, September 8th, 2012.

A Handful of Flowers: An Evening of Poetry, Music and Stories, with Maneli Jamal. Hotel Ocho, Toronto, November 13th, 2011.

Performance with Sacred Balance, the NXNE Festival, The Detour, Toronto, June 18th, 2011.

Performance with Karmetik:Bhutan. Diversity Festival, Taxeda Island, BC, July 10-13, 2009.

Nuit Noire – A Counterpoint to Nuit Blanche with Pouya Hamidi. Bovine Sex Club, Toronto, October 4-5, 2008.

Monastery 0 and 1. Poetry collection, self-published as part of the Poematheque: Pliable Library. Toronto, Ontario, October 2008.

Other Academic Activities

Student Competitions

Student Design Competition, *ACM International Conference on Tangible, Embedded, and Embodied Interaction* (TEI'12) Student Design Competition. Kingston, Ontario, 2012

ACM Regional Programming Contest, Oakville, Ontario, 2004

Doctoral Consortium

Hamidi, F. **Using Interactive Objects for Speech Intervention.** Doctoral Consortium at the *11th International ACM SIGACCESS Conference on Computers and Disability* (ASSETS '09), Pittsburgh, PA, October 2009.

Certificates

Teaching Assistants Certificate in Teaching – TACT, 2013

Teaching English as a Foreign Language (TEFL) certificate, 2003

Volunteering

Volunteer at PopTech Conference, 2010-2017

Foad Hamidi

Student Volunteer at ACM GI, 2014

Student Volunteer at ACM CHI PLAY, 2014

Student Volunteer at ACM SIGGRAPH, 2012

Student Volunteer at ACM CHI, 2010, 2012

Student Volunteer at ACM Group, 2010

A blogger since 2013 (<http://rishmanblog.wordpress.com>)