

Katya Borgos-Rodriguez

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kborgos.github.io

Education

Northwestern University, Evanston, IL
Ph.D. in Technology and Social Behavior
Advised by Prof. Anne Marie Piper
GPA: 3.92 out of 4.00

09/2017 – (expected) 2022

University of Puerto Rico, Mayaguez, PR
B.S. in Computer Engineering
Specialization in Computing Systems with Cum Laude distinction

08/2011 – 07/2017

Research Interests

Human-Computer Interaction, Accessibility, Assistive Technology, Social Computing

Research Experience

Inclusive Technology Lab, Northwestern University
Graduate Research Assistant

09/2017 – Present

Studying content creation among people with disabilities and developing accessible technologies that support learning and creative work. Designing tools informed by interviews, observations and technology testing sessions. *Advised by Prof. Anne Marie Piper.*

Interaction Lab, University of Southern California
Undergraduate Research Assistant

06/2016 – 08/2016

Assisted in deploying study to understand group interactions and dynamics with a robot moderating a three-player collaborative game. Developed a traditional Checkers game to be played on a tablet by older adults with family members or against a robot companion in future studies. *Advised by Prof. Maja Matarić.*

Sketch Recognition Lab, Texas A&M University
Undergraduate Research Assistant

06/2015 – 08/2015

Created new content for KidGab, a sketch-based social network built to promote safe social networking among children. Developed a WordPress plugin to analyze interaction data and identified patterns of conformity influenced by social relationships. *Advised by Prof. Tracy Hammond.*

Developed a native Android mobile application for scheduling and keeping track of medical appointments. Worked on interfaces to show scheduled appointments, book appointments, and find a physician. Advised by Prof. Nestor J. Rodriguez.

Publications

Peer-Reviewed Conferences

Das, M., **Borgos-Rodriguez, K.**, and Piper, A.M. (2020). Weaving by Touch: A Case Analysis of Accessible Making. *Proceedings of ACM Conference on Human Factors in Computing Systems (CHI 2020)*. [Best Paper Honorable Mention Award]

Borgos-Rodriguez, K., Ringland, K. E., and Piper, A.M. (2019). MyAutosomeFamilyLife: Analyzing Parents of Children with Developmental Disabilities on YouTube. *Proceedings of ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW 2019)*.

Beheshti, E., **Borgos-Rodriguez, K.**, and Piper, A.M. (2019). Supporting Parent-Child Collaborative Learning through Haptic Feedback Displays. *Proceedings of ACM Conference on Interaction Design and Children (IDC 2019)*.

Harrington, C.N., **Borgos-Rodriguez, K.**, and Piper, A.M. (2019). Engaging Low-Income African-American Older Adults in Health Discussions through Community-based Design Workshops. *Proceedings of ACM Conference on Human Factors in Computing Systems (CHI 2019)*.

Journal Articles

Borgos-Rodriguez, K., Das, M., and Piper, A.M. (2021). Melodie: A Design Inquiry into Accessible Crafting through Audio-Enhanced Weaving. In *ACM Transactions on Accessible Computing (TACCESS)*, 14(1), 1-30.

Book Chapters

Valentine, S., Leyva-McMurtry, A., **Borgos-Rodriguez, K.**, Hammond, T. (2016). The Digital Sash: A Sketch-Based Badge System in a Social Network for Children. *Revolutionizing Education with Digital Ink* (pp. 179-189), edited by T. Hammond et al., Springer International Publishing.

Workshops and Posters

Borgos-Rodriguez, K., Rodriguez, N. J. (2015). A Smart Phone App for Reducing Patients' Time at Physicians' Offices. *Symposium of Health Informatics in Latin America and the Caribbean & Hacking Medicine in the Caribbean (SHILAC 2015)*. San Juan, PR. November 21, 2015.

Borgos-Rodriguez, K., Valentine, S., Hammond, T. (2015). Identifying Patterns of Conformity on a Social Network for Children. *Grace Hopper Celebration of Women in Computing (GHC 2015)*. Houston, TX. October 15, 2015.

Borgos-Rodriguez, K., Valentine, S., Hammond, T. (2015). Influence of Groupthink on Children's Social Networks. *Computing Alliance of Hispanic-Serving Institutions Summit (CAHSI Summit 2015)*. San Juan, PR. September 11, 2015.

Borgos, K., Rodriguez, N. (2014). A Mobile App for Reducing Patients' Waiting Time at Physicians' Offices. *Society for Advancement of Chicanos/Hispanics and Native Americans in Science National Conference (SACNAS 2014)*. Los Angeles, CA. October 17, 2014.

Honors and Awards

SIGACCESS Diversity & Inclusion Scholarship (ASSETS 2020)	2020
CHI Mentoring (CHIMe) 2018 Symposium Scholar	2018
The National GEM Consortium Associate Fellow	2017
Lockheed Martin Corporation HENAAC Scholarship	2016
CRA-W Distributed Research Experience for Undergraduates (DREU) Grant	2015

Teaching Experience

Teaching Assistant	08/2014 – 12/2014
ICOM4015: Advanced Programming	
University of Puerto Rico at Mayaguez	

Academic Service

NU Latin@CS Internal Vice-President	2020 – Present
NU Latin@CS Student Mentor	2020 – Present
Reviewer for ACM CHI 2020	2019
NU Human-Computer Interaction Events Planning Committee	2018 – 2020
InfoSocial Graduate Research Conference Publicity Assistant	2018
IEEE Women in Engineering UPRM Chapter Secretary and Webmaster	2014 – 2015

Memberships

Association for Computing Machinery (ACM)

ACM Special Interest Group on Computer-Human Interaction (SIGCHI)