

# Marisol Wong-Villacres

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Marisol is a third-year PhD student in Human-Centered Computing at Georgia Tech under the advisement of Betsy DiSalvo and Neha Kumar. She holds a BSc in Computer Engineer and a Master's degree in Human-Computer Interaction Design. She has over 15 years of experience as a Computer Science educator. Her research lies in the intersection of the design of technologies for social development and educational technology.

## Education

- 2021**      **Georgia Institute of Technology**  
*Ph.D. Student in Human-Centered Computing*  
Advisors: Betsy DiSalvo and Neha Kumar
- 2011**      **Indiana University Bloomington**  
*M.S. in Human Computer Interaction Design*  
Thesis: "Designing to Support Ecuadorian Parents and Children Separated by Migration"  
Advisor: Shaowen Bardzell
- 2009**      **Escuela Superior Politécnica del Litoral, Ecuador**  
*Master of Information System Management*
- 2000**      **Escuela Superior Politécnica del Litoral, Ecuador**  
*B.S. in Computer Engineering*

## Publications

### Refereed Full Papers

- Kumar, N., **Wong-Villacres, M.**, Karusala, N., Vishwanath, A., Kumar, A., Ismai, A. (2019). Aspirations-based Design. In Proceedings of the 2019 Conference on Information and Communication Technologies and Development (ICTD'19) Forthcoming.
- Wong-Villacres, M.**, Kumar, A., Vishwanath, A., Karusala, N., DiSalvo, B., Kumar, N. (2018). [Designing for Intersections](#). In Proceedings of the 2018 on Designing Interactive Systems Conference 2018 (pp. 45-58). ACM.
- Evans, H., **Wong-Villacres, M.**, Castro, D., Gilbert, E., Arriaga, R., Dye, M., Bruckman, A. (2018) [Facebook in Venezuela: Understanding Solidarity Economies in Low-Trust Environments](#). In Proceedings of the 2018 CHI Conference on Human Factors in Computing Systems (p. 228). ACM.
- Wong-Villacres, M.**, Velasquez, C., Kumar, N. (2018) [Social Media and Earthquake Response: Unpacking its Limitations with Care](#). Proc. ACM Hum.-Comput. Interact. 1, CSCW, Article 112 (December 2017), 22 pages.
- Wong-Villacres, M.**, Ehsan, U., Solomon, A., Pozo Buil, M., DiSalvo, B. (2017) [Design Guidelines for Parent-School Technologies to Support the Ecology of Parental Engagement](#). In Proceedings of the 2017 Conference on Interaction Design and Children (IDC '17). ACM, 73-83.
- Falcones, G., **Wong-Villacres, M.**, Barzola, V. E., & Garcia, K. C. (2016, October). [Enhancing quality of argumentation in a co-located collaborative environment through a tabletop system](#). In Ecuador Technical Chapters Meeting (ETCM), IEEE (Vol. 1, pp. 1-6). IEEE.
- Wong-Villacres, M.**, Barzola, V. E., Granda, R., & Garcia, K. C. (2016, July). [Portable Tabletops: A Low-Cost Pen-and-Touch Approach](#). In International Conference on Human-Computer Interaction (pp. 241-252). Springer International Publishing.
- Granda, R. X., Echeverria, V., Chiluzia, K., & **Wong-Villacres, M.** (2015, July). [Supporting the Assessment of Collaborative Design Activities in Multi-tabletop Classrooms](#). In Computer Aided System Engineering (APCASE), 2015 Asia-Pacific Conference on (pp. 270-275). IEEE.

## Refereed Posters

**Wong-Villacres, M.**, Evans, H., Schechter, D., DiSalvo, B., Kumar, N. (2019). [Consejero Automatico: Chatbots for Supporting Latino Parents' Educational Engagement](#). In Proceedings of the 2019 Conference on Information and Communication Technologies and Development (ICTD'19) Forthcoming.

**Wong-Villacrés, M.**, Granda, R. , Ortiz, M. , Chiluzia, K. (2016, April) [Exploring the impact of a tabletop-generated group work feedback on students' collaborative skills](#). CEUR Workshop Proceedings, 1601, pp. 58-64.

**Wong-Villacrés, M.**, Ortiz, M.,Echeverria, V, Chiluzia, K. (2015, November). [A Tabletop System to Promote Argumentation in Computer Science Students](#). In ACM International Conference on Interactive Tabletops and Surfaces (ITS '15). ACM, New York, NY, USA.

**Wong-Villacres, M.** and Bardzell, S. 2011. [Technology-Mediated Parent-Child Intimacy: Designing for Ecuadorian Families Separated by Migration](#). Proc. CHI EA '11, pp. 2215–2220. ACM Press.

## Workshop Papers and Proposals

Dye, M., Kumar, N., Schlesinger, A., **Wong-Villacres, M.**, Ames, M., Veeraraghavan, R., O'Neill, J., Pal, J., Gray, M., [Solidarity Across Borders: Navigating Intersections Towards Equity and Inclusion](#). In Companion of the 2018 ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW '18). ACM, New York, NY, USA, 487-494.

**Wong-Villacres, M.**, DiSalvo, B., Kumar, N. (2018, April). [Leveraging Celebrity Fandom for Devising ICT Support to Information-Seeking Needs](#). In the Development Consortium: HCI Across Borders, 2018 Conference on Human Factors in Computing Systems (CHI '18). ACM.

**Wong-Villacres, M.**, Kumar, N., DiSalvo, B. (2017, June). [ICT for an Inclusive Ecology of Parental Engagement: An Asset-based Approach](#). Equity & Inclusivity at IDC, 2017 Conference on Interaction Design and Children (IDC '17). ACM.

**Wong-Villacres, M.**, DiSalvo, B., Kumar, N. (2017, May). [Designing Technologies for Non-Dominant Communities to Cross Social-Cultural Borders](#). In the Development Consortium: HCI Across Borders, 2017 Conference on Human Factors in Computing Systems (CHI '17). ACM.

## Books

Fager, J., Pantoja, L., **Villacres, M.**, Paez, L., Ochoa, D., Cuadros-Vargas, E. (2014). Data Structures, Iniciativa Latinoamericana de Libros de Texto Abiertos (LATIn) ISBN: 978-9942-14-478-2

## Honors/Awards

- 2018** Renewal of Schlumberger Faculty for the Future **Fellowship** for Doctoral Studies
- 2017** Schlumberger Faculty for the Future **Fellowship** for Doctoral Studies
- 2017** Grace Hopper Celebration Student **Scholarship** Recipient
- 2017** Tapia **Scholarship** Recipient
- 2016** Microsoft Research Women's **Fellowship** Recipient
- 2011** Women in Science Program Travel **Grant** at Indiana University Bloomington
- 2010** Fulbright Summer **Research** Grant
- 2009** Fulbright Faculty Development **Scholarship** for Master studies
- 2007** Flemish Interuniversity Council (VLIR) Research **Grant**
- 2006** Fundación Carolina **Scholarship** for Post-graduate studies in Spain
- 2004-2006** Best Teacher **Diploma**, ESPOL

## Professional Experience

- 2016 – Pres.** **Georgia Institute of Technology**  
*Graduate Research Assistant*  
Culture and Technology (CAT) Lab; Technology and Design for Empowerment(TanDeM) Lab
- 2001 – Pres.** **Escuela Superior Politécnica del Litoral, Ecuador**  
*Associate Professor*  
Computer Science Program; Center of Information Technology
- 2010 – 2011** **Indiana University Bloomington**  
*Graduate Student Researcher*
- 2000 - 2004** **Holcim Ecuador**  
*Software Engineer*

## Teaching Experience

### Courses Taught

- 2017** Educational Technology, Georgia Tech
- 2015 – 2016** Human-Computer Interaction (HCI), Escuela Superior Politécnica del Litoral
- 2015** HCI Capstone Course, Topic: Designing for Equity and Inclusion, Escuela Superior Politécnica del Litoral
- 2011 – 2015** Computers and Society, Escuela Superior Politécnica del Litoral
- 2011 – 2015** Digital Collaboration Tools, Escuela Superior Politécnica del Litoral
- 2011** Computer Networks, Escuela Superior Politécnica del Litoral
- 2007** Programming Languages, Escuela Superior Politécnica del Litoral
- 2005 – 2008** Object-Oriented Programming, Escuela Superior Politécnica del Litoral
- 2002 - 2012** Data Structures, Escuela Superior Politécnica del Litoral
- 2001 – 2006** Programming Fundamentals, Escuela Superior Politécnica del Litoral

### Teaching Assistant

- 2017** Educational Technology, Georgia Tech
- 2011** Multimedia Arts and Technology, Indiana University
- 2010** Interaction Design Methods, Indiana University
- 2009 – 2010** Intro to Informatics, Indiana University

## Academic Services

- 2018** Reviewer at CSCW ACM Conference on Computer-Supported Cooperative Work and Social Computing 2018
- 2018** Reviewer at DIS Designing Interactive Systems 2018
- 2017-2018** Reviewer at ICTD Information and Communication Technologies and Development
- 2017-2018** Reviewer at IDC Interaction Design and Children
- 2017** Volunteer at IDC Interaction Design and Children 2017 (Stanford, CA, US)
- 2017** Reviewer at FabLearn 2017
- 2016** Reviewer at NordiCHI 2016 Papers and Notes
- 2015-2019** Reviewer at CHI Papers and Notes

# Marisol Wong-Villacres

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- 2015-2016** Tutor of the Physical Computing Student Club, Escuela Superior Politécnica del Litoral
- 2011** Volunteer at Interaction '11 (Boulder, CO, USA)
- 2019-Pres** Member of Association for Computing Machinery (ACM)
- 2005-2009** Tutor of the Free and Open Source Student Club, Escuela Superior Politécnica del Litoral
- 2007-2009** Coordinator of the Free and Open Source Latin American Festival for Guayaquil-Ecuador
- 2008** Vice President of the Ecuadorian Free and Open Source Association
- 2005-2006** Vice President of the Women in Engineering (WIE) Chapter ESPOL IEEE

## Skills

### Research

Qualitative data collection: Interviewing, ethnographic observations, cultural probes, focus groups, contextual inquiry, artifact analysis, affinity diagramming

Quantitative data collection: Surveys

Design Research: Scenarios, Mind Mapping, Sketching, Storyboarding, Prototyping, Usability Tests

### Technical

HTML/CSS, JavaScript, Python, PHP, Processing, Arduino Sketch, Objective C, Python, SQL, C, C++, C#, Visual Basic .NET, Java, JSP, MySQL, PostgreSQL, SQL Server, XML, Joomla, Multimedia (Pure Data), Adobe Photoshop, Illustrator, After Effects, Audacity, Gimp, Inkscape, Joomla, Apache.

### Languages

Spanish (native)

English (fluent)