# Dr. Berto Gonzalez

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## EDUCATION

**Ph.D. Computing and Information Systems**                                   2015
  College of Computing and Informatics, University of North Carolina, Charlotte, NC
  Dissertation: *Explorability, Satisficing, and Satisfaction in Parameter Spaces*

**Bachelors of Science in Computer Science**                                   2007
  McCormick School of Engineering, Northwestern University, Evanston, IL

## RESEARCH AND TEACHING EXPERIENCE

**Teaching Assistant Professor**                                   2015 - Present
  Department of Software and Information Systems, UNC Charlotte

**Teaching Assistant**                                   2009 – 2015
  Department of Software and Information Systems, UNC Charlotte

**Research Assistant**                                   2012 - 2014
  Tangible Creativity Project, NFS Grant #IIS-1218160, UNC Charlotte

**Lead Software Engineer**                                   2009 - 2012
  Dance Draw Project, NSF CreativeIT Award #IIS-0855882, UNC Charlotte

**PIRE Researcher**                                   2010
  Research Institute of Information Technology, Tsinghua University, Beijing, China

**Information Systems Architecture Engineer, Associate**                                   2008 - 2009
  Center for Technology and Social Behavior, Northwestern University

**Research Programming Intern**                                   2008
  Articulab, Dr. Justine Cassell, Northwestern University

## SERVICE

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|---|---|
| **Student Volunteer Co-Chair, UIST** | 2015 |
| **Program Committee (Poster and Demos), Creativity & Cognition** | 2015 |
| **CHI Reviewer (Papers/Notes, Interactivity, Works-In-Progress)** | 2010 - Present |
| **PLOS ONE Journal Reviewer** | 2015 - Present |
| **NordiCHI Reviewer** | 2014 |
| **Student Mentor, Research Experience for Undergrads** | 2010 - 2014 |
| **Lego Robotics Club Leader, Quail Hollow Middle School** | 2013 |

## PUBLICATIONS

Adams, A., **Gonzalez, B.**, and Latulipe, C. 2014. SonicExplorer: Fluid Exploration of Audio Parameters. In *Proceedings of the SIGCHI Conference on Human Factors in Computing Systems*, CHI 2014. 237-246.

Maher, M.L, **Gonzalez, B.,** Grace, K, and Clausner, T. 2014. Tangible Interaction Design: Can we design tangibles to enhance creative cognition? In *Proceedings of International Conference on Design Computing and Cognition*, DCC 2014. 45-46

**Gonzalez, B.,** Carroll, E., and Latulipe, C. 2012. Dance-inspired technology, technology-inspired dance. In *Proceedings of the Nordic Conference on Human-Computer Interaction,* NordiCHI 2012. 398-407.

Latulipe, C., Wilson, D., Huskey, S., **Gonzalez, B.,** and Word, M. 2011. Temporal Integration of Interactive Technology in Dance: Creative Process Impacts. In *Proceedings of the 8th Conference on Creativity and Cognition*, C&C 2011. 107-116.

Cassell, J., Geraghty, K., **Gonzalez, B.,** and Borland, J. 2009. Modeling Culturally Authentic Style Shifting with Virtual Peers. In *Proceedings of the International Conference on Multimodal Interfaces*, ICMI-MLMI 2009. 135-142.

**Gonzalez, B.,** Borland, J., and Geraghty, K. 2009. Whole Body Interaction for Child-Centered Multimodal Language Learning. In *Proceedings of the Workshop on Child, Computer and Interaction*, WOCCI 2009. Article No. 4.

## EXTENDED ABSTRACTS AND WORKSHOPS

**Gonzalez, B.,** Adams, A., and Latulipe, C. 2014. SonicExploratorium: An Interactive Exhibit of Sonic Discovery. In *Extended Abstracts of CHI 2014*. 395-398.

Maher, M.L, Clausner, T., **Gonzalez, B.,** and Grace, K. 2014. Gesture in the Crossroads of HCI and Creative Cognition. In *Proceedings of the Workshop on Gesture-based Interaction Design at CHI 2014*.

Latulipe, C., Wilson, D., **Gonzalez, B.,** Harris, A., Carroll, E., Huskey, S., Word, M., Beasley, R., and Nifong, N. 2011. SoundPainter. In *Proceedings of Creativity & Cognition 2011*. 439-440.

**Gonzalez, B.** and Latulipe, C. 2011. BiCEP: Bimanual Color Exploration Plugin. In *Extended Abstracts of CHI 2011*. 1483-1488.

Latulipe, C., Wilson, D., Huskey, S., Word, M., Carroll, A., Carroll, E., **Gonzalez, B.,** Singh, V., Wirth, M., and Lottridge, D. 2011. Exploring the design space in technology-augmented dance. In *Extended Abstracts of CHI 2011*. 2995-3000.

## ABSTRACTS

Clausner, T.C., Maher, M., and **Gonzales, B.** 2015. Conceptual Combination Modulated by Action using Tangible Computers. In *Proceedings of the 37th Annual Meeting of the Cognitive Science Society (Member Abstracts)*. COGSCI 2015. 2873

Clausner, T., Maher, M.L., **Gonzalez, B.,** and Grace, K. 2014. What Tangible Computing is Teaching Us About Creative Thinking. Abstract in *Proceedings of the 31st Annual Human-Computer Interaction Lab Symposium at the University of Maryland*. One Page.

Clausner, T., Druin, A., Guha, M.L., Maher, M.L., **Gonzalez, B.,** and Grace, K. 2013. Designing Tangible Computing for Creativity. Abstract in *Proceedings of the 30th Annual Human-Computer Interaction Lab Symposium at the University of Maryland*. One page.

## EXHIBITS AND PRESENTATIONS

Interactivity Exhibiter at CHI 2014

Workshop Paper at CHI 2014 Workshop on Gesture-based Interaction Design

Full Paper at NordiCHI 2012

WIP Poster at CHI 2011

Presenter at Aesthetic Computing and Human-Computer Interaction Symposium 2010

Paper at WOCCI 2009

Invited Exhibitor at 2009 NSF Education Technology Showcase in Washington, DC

## INTERACTIVE DANCE PERFORMANCES

### Aesthetic Technologist
| | |
|---|---|
| "Giselle" UNC Charlotte Spring Dance Concert | 2012 |
| "Heavy Recursion" UNC Charlotte Fall Dance Concert | 2011 |

### Code Artist
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|---|---|
| "Sound Painter" ACM Creativity & Cognition | 2011 |
| "The Angled Angels Assembly" UNC Charlotte Spring Dance Concert | 2011 |

### Software Architecture Engineer
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|---|---|
| "An Instance Of…" UNC Charlotte Fall Dance Concert | 2010 |
| "Bodies/Antibodies" UNC Charlotte Spring Dance Concert | 2010 |
| "Whispering to Ophiuchus" UNC Charlotte Fall Dance Concert | 2009 |

## INTERACTIVE ART INSTALLATIONS

### Interaction Design Engineer
| | |
|---|---|
| "PopArt Visitors" The Light Factory, Charlotte, NC | 2013 |
| "Interactive Surveillance" Dialect Gallery, Charlotte, NC | 2010 |

## REFERENCES

Dr. Celine Latulipe
Associate Professor
Department of Software and Information Systems, UNC Charlotte
(704) 687-8195 | clatulip@uncc.edu

Dr. Mary Lou Maher
Professor and Department Chair
Department of Software and Information Systems, UNC Charlotte
(704) 687-1940 | m.maher@uncc.edu

Dr. Heather Richter Lipford
Associate Professor
Department of Software and Information Systems, UNC Charlotte
(704) 687-4893 | Heather.Lipford@uncc.edu

Professor Sybil Huskey
Department of Dance, UNC Charlotte
(704) 687-0219 | sdhuskey@uncc.edu