

# BRIANNA B. POSADAS

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## EDUCATION

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Doctor of Philosophy in Human-Centered Computing Concentration in Communicating Privacy Policy <i>University of Florida, Gainesville, FL</i>	Dec 2019
Master of Science in Agricultural Engineering Minor in Agricultural Education and Communication <i>University of Florida, Gainesville, FL</i>	May 2016
Bachelor of Science in Engineering Concentration in Psychology <i>Harvey Mudd College, Claremont, CA</i>	May 2013

## RESEARCH INTERESTS

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Human-Computer Interaction (HCI), Digital Agricultural, Agricultural Education and Communication, Public Policy, User Experience (UX), Human Factors

## AWARDS, HONOR SOCIETIES, FELLOWSHIPS, AND SCHOLARSHIPS

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### AWARDS

Computers and Electronics in Agriculture Outstanding Contribution in Reviewing	2017
J. Michael Rollo Diversity Impact Award	2016
Outstanding Gator Engineer M.S. Scholar	2016
Society of Hispanic Professional Engineers RISE Symposia Best Paper Award	2015

### FELLOWSHIPS

Media Democracy Fund PhDx Fellow	2017 & 2018
Florida Education Fund McKnight Doctoral Fellow	2016 – 2021
University of Florida Graduate School Fellow	2016 – 2020
University of Florida Board of Education Fellow	2016
NSF East Asia and Pacific Summer Institute (EAPSI) Fellow (Abstract #1514823)	2015

### HONOR SOCIETIES

Edward Alexander Bouchet Graduate Honor Society	2019
Gamma Sigma Delta Agriculture Honor Society	2016
Alpha Epsilon Agricultural, Biological & Food Engineering Honor Society	2015
Alpha Epsilon Lambda National Graduate Students Honor Society	2015
Tau Beta Pi National Engineering Honor Society	2015

### SCHOLARSHIPS

Stanford Postdoctoral Recruitment Initiative in Sciences and Medicine (PRISM)	2019
SACNAS ASSIST Travel Grant	2018
Microsoft Tapia Conference Scholarship	2018
Computer and Information Science and Engineering Graduate Scholarship	2018
ACM Tapia Celebration of Diversity in Computing Scholarship	2017
Grace Hopper Celebration Scholarship	2016

University of Florida Graduate Assistantship	2014 – 2016
Shirlynn I. Spacapan Memorial Endowed Scholarship	2012 – 2013
Cheryl Kopp Memorial Scholarship	2011 – 2012
Harvey S. Mudd Merit Award	2009 – 2011

## **PUBLICATIONS AND PRESENTATIONS**

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### **JOURNAL PAPERS**

Brinkley, J., **Posadas, B.**, Sherman, I., Daily, S. B., & Gilbert, J. E. (2019). *An Open Road Evaluation of a Self-Driving Vehicle Human–Machine Interface Designed for Visually Impaired Users*. *International Journal of Human–Computer Interaction*, 1-15.

**Posadas, B. B.**, Lee, W. S., Galindo-Gonzalez, S., Hong, Y., & Kim, S. (2016) *State of Knowledge of Apple Marssonina Blotch (AMB) Disease among Gunwi Farmers*. *Journal of Biosystems Engineering*, 41(3), 255-262.

### **CONFERENCE PAPERS**

**Posadas, B.**, (2018) *Issues of Big Data in Agriculture*. CSCW 2018 Workshop on Rural Computing: Beyond Access & Infrastructure, November 4, 2018, Jersey City, NJ, USA.

Sherman, I., **Posadas, B.**, Smarr, S., & Gilbert, J.E. (2018) *My Finger, My Face, My Choice: A Preliminary Study Exploring the use of Biometric Authentication on Mobile Devices and the Implications for Voter Verification*. Presented at Who Are You!?! The Adventures in Authentication Workshop (WAY), August 15-17, 2018, Baltimore, MD, USA.

Williams, A., Sherman, I., Smarr, S., **Posadas, B.**, and Gilbert, J. (2018) *Human Trust Factors in Image Analysis*. In 9<sup>th</sup> International Conference on Applied Human Factors and Ergonomics, Orlando, FL, USA. July 22 – 26, 2018.

Williams, A., **Posadas, B.**, Prioleau, D., Laurenceau, I., and Gilbert, J. (2018) *User Perceptions of Haptic Fidgets for Mobile Devices on Attention and Comprehension*. In 9<sup>th</sup> International Conference on Applied Human Factors and Ergonomics, Orlando, FL, USA. July 22 – 26, 2018.

Brinkley, J., **Posadas, B.**, Woodward, J., and Gilbert, J.E. (2017) *Opinions and Preferences of Blind and Low Vision Consumers Regarding Self-Driving Vehicles: Results of Focus Group Discussions*. In ASSETS '17 Proceedings of the 19th International ACM SIGACCESS Conference on Computers and Accessibility, Baltimore, MD, USA, pp. 290-299, October 20 - November 01, 2017.

Smarr, S., Sherman, I.N., **Posadas, B.**, and Gilbert, J.E. (2017) *Prime III: Voting for a More Accessible Future*. In ASSETS '17 Proceedings of the 19th International ACM SIGACCESS Conference on Computers and Accessibility, Baltimore, MD, USA, pp. 335-336, October 20 - November 01, 2017.

**Posadas, B.**, Sherman, I., Mahendran, D., Burgalia, G. and Gilbert, J.E. (2017) *A Focus Group Study of Blind Voters in Alachua County*. In Proceedings of the Human Factors and Ergonomics Society 2017 Annual Meeting. Austin, TX, USA, pp. 1111-1113.

**Posadas, B. B.**, Lee, W. S., Hong, Y., & Kim, S. (2015) *Detecting Marssonina Blotch Using Hyperspectral Imaging and Hierarchical Clustering*. In 2015 ASABE Annual International Meeting (p. 1). American Society of Agricultural and Biological Engineers.

### **PRESENTATIONS**

**Posadas, B.** (2019) *User-Centered Design for Data Collection in Precision Agriculture*. Poster presented at 16<sup>th</sup> Annual Yale Bouchet Conference, Yale University. **Accepted**

## Brianna B. Posadas

Brinkely, J., **Posadas, B.**, Woodward, J., Daily, S., and Gilbert, J. (2018) *Developing Personas with Disabilities to Aide in the Design of Accessible Automotive Systems*. In 9<sup>th</sup> International Conference on Applied Human Factors and Ergonomics, Orlando, FL, USA. July 22 – 26, 2018.

**Posadas, B.**, (2018) *A Survey of Low-Cost Precision Agricultural Technologies*. Poster presented at GEM-ASEE Doctoral Engineering Research Showcase, Washington, D.C.

**Posadas, B. B.**, Waters, S., Gilbert, J. (2017) *Extending the Privacy Calculus to Smart Vehicles*. Poster presented at the Transportation Planning Exchange Forum, Ponte Vedra, FL.

Gilbert, J., Eugene, W., Jones, J., Mack, N., Crawford, C., Thomas, S., **Posadas, B.** (2016) *Designing for Inclusive Voting Technologies*. Paper presented at the 7<sup>th</sup> International Conference on Applied Human Factors and Ergonomics, Orlando, FL.

**Posadas, B.** (2015) *The Development of a binary classifier for the early detection of Marssonina Blotch Disease*. Paper presentation at the meeting of the Society of Hispanic Professional Engineers (SHPE), Baltimore, MD. **Best Paper Award**

**Posadas, B.** (2015) *Dimensionality Reduction Methods to Detect Marssonina Blotch Disease in Fuji Apple Leaves*. Poster presentation at Graduate Research Day at University of Florida, Gainesville, FL.

**Posadas, B.** (2015) *Machine Learning Algorithm for Detection of Marssonina Blotch Disease in Fuji Apple Leaves*. Poster presentation at Agricultural and Biological Engineering Department Research Day at University of Florida, Gainesville, FL.

### PANELS

*Applications Quest: A Tool for Diversity*, South Meets Southwest Regional Forum, February 13-15, 2019. San Antonio, TX.

*Ethics in Data Science*, Broadening Participation in Data Mining, Howard University, February 2-4, 2019. Washington, D.C.

*Applications Quest: A Tool for Diversity*, National Association for College Admission Counseling National Conference, September 27-29, 2018, Salt Lake City, UT.

*Dealing with Bias and Unfairness in Machine Learning Algorithms*, ACM Richard Tapia Celebration of Diversity in Computing, September 19-22, 2018. Orlando, FL.

*Introduction to Graduate School*, Hebert Wertheim College of Engineering Summer Bridge Program, August 2016, University of Florida, Gainesville, FL.

### OTHER WRITINGS

**Posadas, B.** *How strategic is Chicago's "Strategic Subjects List"? Upturn investigates*. Equal Future. June 22, 2017.

**Posadas, B.** *Facebook: connect, share, and fuel hate speech*. Latinx Mic. August 1, 2018.

## PROFESIONAL EXPERIENCE

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- Graduate Research Assistant Aug 2016 – present  
*Computer and Information Science and Engineering, University of Florida, Gainesville, FL*
- Design, implement, and evaluate usability studies with Prime III, a voting machine
  - Write policy recommendations for autonomous vehicle use with communities with disabilities
  - Conduct research and publish papers on human trust in computer programs and usability of fidget devices
  - Complete qualification exam entitled *A Survey of Low-Cost Precision Agricultural Technologies*
- Media Democracy Fund PhDx Fellow Jun 2018 – Aug 2018  
*National Hispanic Media Coalition, Washington D.C.*
- Researched Facebook’s policy on hate speech and wrote blogpost
  - Attended meetings and conferences to collaborate with other civil rights organizations
  - Contributed to FEC and FCC comments
- Media Democracy Fund PhDx Fellow May 2017 – Jul 2017  
*Upturn, Washington D.C.*
- Updated police body camera scorecard
  - Researched Chicago’s Strategic Subjects List and analyzed de-identified dataset
  - Contributed to weekly Equal Futures newsletter
  - Edited pre-report viewing of body camera footage memo
- McNair Peer Advisor Sep 2016 – May 2018  
*McNair Scholars Program, University of Florida, Gainesville, FL*
- Mentored 4 undergraduate students in graduate school application process
  - Reviewed students’ scientific papers and presentations for conferences
- Research Assistant Nov 2015 – Dec 2017  
*Family and Nutrient Program, University of Florida, Gainesville, FL*
- Created yearly reports for each of the counties involved in the FNP using Excel and macros
  - Collected food waste data from Title 1 elementary schools for Farm to School program
  - Wrote python program to merge different reports into one readable Excel file
  - Aided team data analysis with python code and yearly reports
- Graduate Research Assistant Aug 2014 – May 2016  
*Agricultural and Biological Engineering, University of Florida, Gainesville, FL*
- Developed detection algorithms for apple disease using hyperspectral images
  - Planned data collection strategy of hyperspectral images of apple leaves
  - Implemented data collection proposal in Gunwi, South Korea with NSF support
  - Wrote master’s thesis, journal and conference publications
- Interviewer Aug 2014 – Aug 2016  
*InitialView, Beijing, China*
- Conducted college admissions interviews with an average of 5 high students per week
  - Recorded and transcribed 15-minute college admissions interviews with students from China, Korea, and Taiwan
  - Evaluated the student’s best response for the convenience of the admissions officer’s review

Brianna B. Posadas

Academic Consultant Jun 2013 – Apr 2014  
*AIC Education, Shenzhen, China*

- Developed a macro program to automatically consolidate and analyze student results
- Conducted research for new file-sharing and email client for all employees and students
- Advised and edited essays for 10 high school students who are applying to colleges in the US
- Established company-wide Common Application training and analysis

Senior Interviewer Aug 2012 – May 2013  
*Admissions Office, Harvey Mudd College, Claremont, CA*

- Interviewed an average of 5 high school applicants to Harvey Mudd College on a weekly basis
- Provided a written summary of each interview to be included in the student's application
- Communicated as a liaison between prospective students and the Office of Admissions

**VOLUNTEER EXPERIENCE**

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Letter Writer Aug 2018 – present  
*Letters to a Pre-Scientist, <http://www.prescientist.org>*

- Write letters to student pen pal during school year
- Encourage student scientific pursuits

Academic Journal and Conference Peer Reviewer Oct 2016 – present

- Advancing Diversity, Inclusion, and Social Justice through Human Systems Engineering
- Ingeniería e Investigación Journal, Ciudad Universitaria, Bogotá, Colombia
- Human Factors and Ergonomics Society Annual Meeting
- Interaction Design and Children Conference
- Computers and Electronics in Agriculture
- American Society for Engineering Education

Scientist Jan 2017 – Dec 2018  
*Skype a Scientist, <https://www.skypeascientist.com/>*

- Respond to teacher inquires for Skype meeting with students
- Arrange Skype sessions with classrooms, prepare materials for meeting
- Conduct Skype sessions with classes and answer science questions from students

Alumnae Interviewer Jun 2013 – Dec 2018  
*Admissions Office, Harvey Mudd College, Claremont, CA*

- Interviewed an average of 5 high school applicants per admissions cycle
- Served as the sole interviewer for the China region and met students in Shenzhen in 2013
- Provided the admissions office with a written summary of the interview

Committee Member Sep 2016 – May 2017  
*Engineering Student Leadership Advisory Board, University of Florida, Gainesville, FL*

- Provided advice to Herbert Wertheim College of Engineering administration
- Advised on student leadership activities, curriculum development, special events, and scholarship criteria

Committee Member Jul 2016 – May 2018  
*Diversity and Inclusion Student Group, University of Florida, Gainesville, FL*

- Served on advisement board with undergraduate and graduate students throughout the university
- Advised on curriculum development, special events, and diversity and inclusion activities
- Promoted sensitivity training for students and staff

Brianna B. Posadas

- Web Master May 2016 – May 2017  
*Alpha Epsilon Lambda Honor Society, University of Florida, Gainesville, FL*
- Managed AEL's website and online presence
  - Reviewed member applications
- CodeIT Day Instructor Oct 2015  
*Computer and Information Science and Engineering, University of Florida, Gainesville, FL*
- Taught 30 students programming using LEGO MINDSTORMS EV3 Software
- Graduate Student Recruiter Sep 2015 – May 2018  
*Hebert Wertheim College of Engineering, University of Florida, Gainesville, FL*
- 2015 - Society of Hispanic Professional Engineers (SHPE) Conference, Baltimore, MD  
Attended SHPE conference and promoted UF graduate school at career fair
  - 2015 & 2017 - Junior Preview, University of Florida, Gainesville, FL  
Gave tours and answered questions of junior undergrads visiting the college of engineering
  - 2016 - 2018 - Spring Visit, University of Florida, Gainesville, FL  
Gave tours and answered questions of admitted PhD students visiting the college of engineering
- Clean Tech Competition Judge Mar 2015 & 2016  
*Center for Science Teaching and Learning, Rockville Centre, NY*
- Reviewed 10 high school team papers on innovative solutions to world food supply inefficiencies
- Gator Global Initiative Small Group Facilitator Mar 2015  
*Center for Leadership and Service, University of Florida, Gainesville, FL*
- Managed group of 6 undergraduate students during the conference
  - Debriefed group after seminars and lead discussions
- Graduate Ambassador Jan 2015 – Jan 2016  
*Society of Hispanic Professional Engineers, University of Florida, Gainesville, FL*
- Advised undergraduate members on the graduate admissions process
  - Volunteered for STEM outreach programs including Engineering Week and high school visits
- Co-founder, President (2016-2018), Vice President (2015), Treasurer (2014) Aug 2014 – May 2018  
*Latino-Hispanic Organization of Graduate Students, University of Florida, Gainesville, FL*
- Founded organization to promote professional and academic development of Latino/Hispanic graduate students
  - Organized social events for students and professors to foster mentoring relationships and celebrate cultural events
  - Won outstanding cultural organization for the University of Florida (2017)
- President (2011-2012) Aug 2009 – May 2013  
*Society of Hispanic and Professional Engineers, Harvey Mudd College, Claremont, CA*
- Planned Harvey Mudd's involvement in the Claremont College's Cesar Chavez Celebration 2012
  - Led the search committee to find a speaker, former astronaut Jose Hernandez
  - Collaborated with dining hall staff to provide dinner and entertainment for 50 people

## **SKILLS AND CERTIFICATIONS**

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### **SKILLS**

- GIS: ENVI, ArcMap, MATLAB including Image Processing Toolbox and Simulink
- Statistical Analysis Software: VBA and Microsoft Office, R, SPSS
- Coding: Python, JavaScript, Java, Jupyter, GitHub
- User Design: interviews, focus groups, surveys, AutoCad, MAXQDA
- Languages: English (native language), Spanish (conversational), Mandarin (basic knowledge)

### **CERTIFICATIONS**

- Collaborative Institutional Training Initiative (CITI)

### **MEMBERSHIPS**

- American Association for the Advancement of Science
- Association for Computing Machinery
- Human Factors and Ergonomics Society
- Institute of Electrical and Electronics Engineers
- Society of Hispanic Professional Engineers
- Society for Advancement of Chicanos/Hispanics and Native Americans in Science