

## BRIANNA B. POSADAS

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### EDUCATION

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

### RESEARCH INTERESTS

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

### AWARDS, HONORS, FELLOWSHIPS, AND SCHOLARSHIPS

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#### AWARDS

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
Dean's List – Harvey Mudd College	2012

#### HONOR SOCIETIES

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

#### FELLOWSHIPS

Media Democracy Fund PhDx Fellow	2017
Florida Education Fund McKnight Doctoral Fellow	2016-2020
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	2015

#### SCHOLARSHIPS

Grace Hopper Celebration Scholarship Grant	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

## PAPERS AND PRESENTATIONS

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### PAPERS

**Posadas, B. B.**, Sherman, I., Mahendra, D., Burgalia, G., Gilbert, J. (2017) *A Focus Group Study of Blind Voters in Alachua County*. 2017 Annual Meeting of the Human Factors and Ergonomics Society.

**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.

**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. 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.

Panelist (2016, July) – “Introduction to Graduate School”, Hebert Wertheim College of Engineering Summer Bridge Program, University of Florida, Gainesville, FL.

Posadas, B. (2015, November). 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, October). 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, September). 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.

### PROFESIONAL EXPERIENCE

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Media Democracy Fund Fellow  
*Upturn, Washington D.C.*

May 2017 – July 2017

- Update police body camera scorecard
- Research Chicago’s Strategic Subjects List and analyzed de-identified dataset
- Contribute to weekly Equal Futures newsletter
- Edit pre-report viewing of body camera footage memo

Brianna B. Posadas

- McNair Peer Advisor Sep 2016-present  
*McNair Scholars Program, University of Florida, Gainesville, FL*
- Mentor 4 undergraduate students in graduate school application process
  - Review students' scientific papers and presentations for conferences
- 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
- Research Assistant Nov 2015-May 2016  
*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
- 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
- Interviewer Aug 2014-Aug 2016  
*InitialView, Beijing, China*
- Interviewed an average of 5 high students per week as part of their college applications
  - Recorded 15 minute interviews with students from mainland China, Korea, and Taiwan
  - Evaluated the student's best response for the convenience of the admissions officer's review
- 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
  - Communicated as a liaison between prospective students and the Office of Admissions
  - Provided a written summary of each interview
- Head Grader Jan 2012- Dec 2012  
*Engineering Department, Harvey Mudd College, Claremont, CA*
- Graded 30 lab and homework assignments a week for introduction to signals and systems
  - Supervised and managed 4 other graders
  - Communicated with students about their concerns on graded assignments
  - Completed other record keeping for the instructors

## Brianna B. Posadas

Engineering Aide May 2012-Jul 2012  
*Monsanto, Oxnard, CA*

- Created a semi-automated method of evaluating the physical appearance of 6 different seeds
- Calibrated and troubleshoot a field imaging system
- Updated and edited the user manual for this same system and completed a trial run
- Designed a GUI to determine the percent seed coat missing using a static image

### **VOLUNTEER EXPERIENCE**

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Peer Reviewer October 2016-present

- Ingeniería e Investigación Journal, Ciudad Universitaria, Bogotá, Colombia
- Human Factors and Ergonomics Society Annual Meeting
- Interaction Design and Children Conference

Committee Member Sep 2016-May 2017

*Engineering Student Leadership Advisory Board, University of Florida, Gainesville, FL*

- Advise Herbert Wertheim College of Engineering administration on college-wide leadership activities, curriculum development, special events, and scholarship criteria

Committee Member Jul 2016-present

*Diversity and Inclusion Student Group, University of Florida, Gainesville, FL*

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

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-present

*Hebert Wertheim College of Engineering, University of Florida, Gainesville, FL*

- 2015 - Society of Hispanic Professional Engineers (SHPE) Conference, Baltimore, MD
- 2015 - Junior Preview, University of Florida, Gainesville, FL
- 2016 - Spring Visit, University of Florida, Gainesville, FL

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

## Brianna B. Posadas

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, 2017), Vice President (2015), Treasurer (2014) Aug 2014-present

*Latino-Hispanic Organization of Graduate Students, University of Florida, Gainesville, FL*

- Founded the organization to promote the 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)

Alumnae Interviewer

Jun 2013-present

*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

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
- User Design: interviews, focus groups, surveys, AutoCad, MAXQDA
- Languages: English (native language), Spanish (conversational), Japanese (basic knowledge)

### CERTIFICATIONS

- Collaborative Institutional Training Initiative (CITI)

### MEMBERSHIPS

- Society of Hispanic Professional Engineers
- Association for Computing Machinery
- Institute of Electrical and Electronics Engineers
- Human Factors and Ergonomics Society