Daniel A. Delgado, PhD

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WORK EXPERIENCE

University of Florida **August 2019 – August 2025**

Quantitative UX Researcher *Gainesville, FL*

- Led foundational research on shared-gaze visualizations in augmented reality for industrial tasks, enhancing collaborative interactions between two-person teams across 60+ study sessions. This work resulted in four peer-reviewed publications at internationally recognized conferences (ACM DIS, IEEE VR, and ISMAR).
- Contributed to the design and evaluation of a virtual reality training platform for an EMG-based prosthetic hand used by over 60 participants in a user evaluation. Collaborated with cross-disciplinary teams in human factors and machine learning.
- **Achievement #1:** Identified communication bottlenecks in collaborative AR systems → designed and implemented gaze-based visualization methods using real-time eye-tracking → improved collaborator engagement and reduced task completion times by 20%.
- **Achievement #2:** Found gaps in machine learning models predicting prosthetic arm movement → built a convolutional neural network to predict wrist and arm angles → increased control degrees of freedom from 1 to 2, enhancing user dexterity.

University of Florida **August 2023 – December 2023**

Instructional Professor *Gainesville, FL*

- Delivered lectures and developed syllabi, homework assignments, and labs for an introductory Python programming course with 50 students.
- Managed and scheduled 2 teaching assistants, overseeing labs, office hours, and compensation.
- **Achievement #1**: Identified limited student engagement in traditional lectures → implemented flipped classroom model → increased student participation by 30% and improved average exam scores by 15%.
- **Achievement #2:** Identified students struggling with course material → implemented a peer mentoring program → improved overall grades and learning outcomes.

Innovatech Engineering **June 2018 – December 2018**

Software Developer *Tallahassee, FL*

- Developed mobile applications to remotely control scuba diving equipment used by professional divers and researchers in field testing.
- Collaborated with hardware engineers to integrate Bluetooth connectivity and real-time sensor data into Android-based tools.
- Assembled hardware components and ran 10+ testing simulations per week, ensuring communication reliability in underwater conditions.
- **Achievement #1:** Optimized Bluetooth protocols to maintain stable underwater connections → improved control range by **25%** in simulated test dives.
- **Achievement #2:** Iteratively redesigned the UI based on user feedback → reduced average task completion time by **40%** during trials.

EDUCATION

University of Florida **August, 2025**

PhD, Computer Science *Gainesville, FL*

- McKnight Doctoral Fellow, GPA: 3.6 / 4.0
- Presented cutting-edge research at international conferences.
- Competed in national collegiate road races and criteriums as part of the university cycling team.

SKILLS

User interface research & design; contextual inquiry; qualitative interviews & usability testing; quantitative surveys & data analysis; statistical analysis (R, Excel, Matlab, ANOVA, T-Tests, Regressions); survey design; computer vision; image processing; wireframing & prototyping (Figma, Sketch); stakeholder communication & presentation; participant recruitment & screening; research planning & project management; survey tools (Qualtrics, MTurk); wearables