

# Matt Whitlock

## *Cirriculum Vitae*

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## Education

- 2016– **PhD in Computer Science**, *University of Colorado*, Boulder, CO.
- 2011–2016 **BS in Computer Science**, *The University of Alabama*, Tuscaloosa, AL.  
Honors College Graduate, Minor in Mathematics  
Magna Cum Laude

## Professional Experience

### Research Experience

- 2017– **Research Assistant**, *University of Colorado*, Boulder, CO.
- 2016–2017 **Teaching Assistant**, *University of Colorado*, Boulder, CO.  
CSCI 4308: Senior Projects 1 and CSCI 4318: Senior Projects 2.
  - Managed 8 software engineering groups in their Senior Capstone projects
  - Developed a set of lesson plans to teach core software engineering concepts
  - Organized the end of year Computer Science Expo (approximately 500 in attendance)
  - Ranked in 89th percentile for overall instructor score within the College of Engineering
    - 88th percentile within Department of Computer Science
- 2013–2013 **Research Fellow**, *Purdue University*, West Lafayette, IN.
  - Part of the University's Research Experience for Undergraduates (REU) program
  - Built and evaluated use of a robot as a mobile network access point (AP).

### Industry Experience

- 2015–2016 **IT Intern**, *The Home Depot*, Atlanta, GA.
  - Created a web frontend and backend for a consolidated product lookup application
  - Synthesized with frontend developers, UX designers and product owners
  - Reverse engineered the user interface of a management console application
- 2013–2014 **Engineering Co-op**, *ADTRAN Inc*, Huntsville, AL.
  - Term 3: Engineered a communication layer for network management
  - Term 2: Developed a software submission tool to manage code changes
  - Term 1: Developed network maps for monitoring device performance

## Publications

**Becoming Butterflies: Interactive Embodiment of the Butterfly Lifecycle**, Annie Kelly, **Matt Whitlock**, Brielle Nickoloff, Angel Lam, Danielle Szafir, Stephen Volda, Ubicomp: ACM International Joint Conference on Pervasive and Ubiquitous Computing, 2017.

**Enhancing Wi-Fi Signal Strength of a Dynamic Heterogeneous System Using a Mobile Robot Provider**, *Esther Rolf, **Matt Whitlock**, Byung-Cheol Min, Eric T Matson*, RITA: Robot Intelligence Technology and Applications, 2013.

## Relevant Skills

### Languages

C#, Javascript, Python, Java, Latex.

### Frameworks and APIs

Holotoolkit, Aframe (WebVR + WebAR), D3, AngularJS, WebGL, Kinect 1.8, Node.

### Software Tools

Unity, JMP, Tableau.

### Hardware

HoloLens, Gear VR, HTC Vive, Wii Remote, Kinect.

## Community Outreach

Mentor UPP	Mentoring Undergraduate Freshmen in Engineering
Every Move Counts	Mentoring and teaching chess at Tuscaloosa Elementary and High schools
UA Honors College	Promoting reading and learning skills in Elementary and Middle schools