

# Keith R. MacArthur

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## EDUCATION

Ph.D. Student in Modeling & Simulation, Minds in Technology - Machines in Thought Laboratory. Institute for Simulation and Training, University of Central Florida. Expected 2023.

B.Sc., Psychology with Honors in the Major, University of Central Florida, 2014. Cum Laude. (Overall GPA: 3.83, Major GPA: 3.93). Minor in Information Technology.

Associates in Arts with Honors, Eastern Florida State College, 2012 (Overall GPA: 3.7).

## HONORS & AWARDS

Recipient of UCF's Office of Undergraduate Research \$1,014 Group Travel Grant, Spring 2014

Recipient of UCF's Student Government Association \$1,500 Group Travel Grant, Spring 2014

Recipient of University of Central Florida's Burnett Honors College \$250 Group Travel Award, Spring 2014

## GRANTS SUBMITTED

National Science Foundation Graduate Research Fellowship

2014

## GRANTS AWARDED

2014 Recipient of University of Central Florida's Honors in the Major Scholarship, \$1,000

2016 University of Central Florida's Office of Research and Commercialization Doctoral Fellowship, \$81,055

## TEACHING EXPERIENCE

Teaching Assistant for Gaby Hancock

Fall 2013, Spring 2014

Course: Science and Pseudoscience in Psychology

- Coordinated with other teaching assistants, prepared slides and videos for lecture, monitored online student communications, proctored exams, delivered tests to grading facility

## PROFESSIONAL AFFILIATION

Psi Beta National Honor Society in Psychology for Community & Junior Colleges

Since 2007

American Psychological Association Graduate Student Affiliate

Since 2012

Psi Chi International Honor Society

Since 2013

Phi Kappa Phi Honor Society (Lifetime Member)

Since 2013

Burnett Honors College of University of Central Florida

Since 2013

Human Factors and Ergonomics Society

Since 2016

Golden Key International Honor Society

Since 2013

## PUBLICATIONS / PRESENTATIONS

### Publications:

Kessler, T. T., **MacArthur, K. R.**, Hancock, P. A. (Submitted). Mediators of trust in human-robot interaction. *IEEE Transactions on Human-Machine Systems*, XX(X), XXX-XXX.

### Paper Presentation:

**MacArthur, K. R.**, Hancock, G. M., & Sawyer, B. D. (2015, August). *Deindividuation of drivers: Is everyone else a bad driver?* Presented at the 19<sup>th</sup> triennial congress of the International Ergonomics Association, Melbourne, Australia.

**MacArthur, K. R.**, Stowers, K., & Hancock, P. A. (2016, July). *Human-robot interaction: Proximity and speed - Slowly back away from the robot!* Submitted to: The Proceedings of the 7th International Applied Human Factors and Ergonomics Annual Meeting. Springer Publications.

### Poster Presentations:

**MacArthur, K. R.**, Fund, I., Siler, J., Hancock, G., & Mouloua, M. (2014, March). *Validating the Continuum Mysteriosum*. Poster presented at the 60<sup>th</sup> annual meeting of the Southeastern Psychological Association, Nashville, TN.

**MacArthur, K. R.** (2014, April). *Deindividuation of drivers: Are We Individuals?* Poster Presented at the 11th annual Showcase of Undergraduate Research Excellence, Orlando, FL. (Abstract Only).

**MacArthur, K. R.**, Greenstein, S., Sawyer, B., & Hancock, P. A. (2014, April). *Mastering Google Glass*. Poster presented at the 8th Annual Human Factors and Applied Psychology Student Conference, Daytona Beach, FL. (Abstract Only).

**MacArthur, K. R.**, Greenstein, S., Sawyer, B., & Hancock, P. A. (2014, August). *PSUM: Training in Google Glass and Android*. Poster presented at the 122<sup>nd</sup> annual meeting of the American Psychological Association, Washington D.C. (Abstract Only).

Hancock, P. A., Sanders, T. L., Kessler, T., Volante, W., & **MacArthur, K. R.** (2015, May). *Who will fly in the future: The human role in automated flight spaces*. Poster presented at the 86<sup>th</sup> annual meeting of the Aerospace Medical Association, Lake Buena Vista, FL.

Hancock, P. A., Kessler, T., **MacArthur, K. R.**, & Stowers, K. (2016, January). *H1.3 Trust in human-robot interaction: Current findings and future investigations*. Poster presented at the annual Research Management Board meeting of the Army Research Laboratories: Robotics Collaboration Technological Alliance, Aberdeen Proving Grounds, MD.

MacGillivray, T. G., Parkhurst, E. L., **MacArthur, K. R.**, & Hancock, P. A. (2016, April). *Human-Robot Versus Human-Human Relationship Impact on Comfort Levels Regarding in Home Privacy*. Poster presented at the 10th Annual Human Factors and Applied Psychology student conference, Daytona Beach, FL. (Abstract Only).

Kessler, T., **MacArthur, K. R.**, Trujillo-Silva, M., MacGillivray, T. G., Ripa, C., & Hancock P. A. (2016, November). *Perceptions of Planned Versus Unplanned Malfunctions: A Human-Robot Interaction Scenario*. Poster presented at the 57th Annual Meeting of the Psychonomic Society, Boston, MA.

### Undergraduate Thesis:

**MacArthur, K. R.** (2014). *Deindividuation of Drivers: Is Everyone Else a Bad Driver?* (Unpublished undergraduate thesis). University of Central Florida, Orlando FL.