

# W I L L I A M V O L A N T E

wgvolante@gmail.com

## SUMMARY OF QUALIFICATIONS

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- Accomplished student in a mix of engineering and psychology courses
- Teaching assistant who is passionate about engaging in the learning experience
- Active researcher involved in undergraduate and graduate level research
- Author of research publications

## EDUCATION

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**University of central Florida** Orlando, FL  
Ph.D., Applied Experimental Human Factors Psychology Expected May 2020

**University of Central Florida** Orlando, FL  
Bachelor of Science in Psychology December 2014  
Cognitive Sciences Minor

## HONORS AND SCHOLARSHIP

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Pegasus Scholarship 2010-2014  
Florida Bright Futures Scholarship 2010-2014  
First Year Academic Scholar 2010 & 2011  
International Baccalaureate Diploma May 2010  
AP Scholar May 2010

## TEACHING EXPERIENCE

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University of Central Florida Orlando, FL  
*Teaching Assistant* (to Dr. Edwardo Rinalducci) Spring 2014

Course: Introduction to Human Factors

- Aided in test writing and grading. Assumed an increase of responsibilities mid-semester upon the professor taking medical leave.

*Graduate Teaching Assistant* (to Dr. Matthew Chin) Fall 2015

Course: Research Methods in Psychology

- Independently taught the lab portion of the course. Instructed students on technical skills and methods in research design and practice.

*Graduate Teaching Assistant* (to Dr. Matthew Chin) Spring 2016

Course: The Psychology of Human Animal Interaction

- Independently assessed student work, such as exams, papers, and projects.

*Graduate Teaching Assistant* (to Dr. Mustapha Mouloua) Summer 2016

Course: Research Methods in Psychology

- Worked with the instructor to explain course material. Assisted with the assessment of student work.

*Graduate Teaching Assistant* (to Victoria Claypoole M.S.)

Fall 2016

Course: Basic Learning Processes

- Worked with the instructor to explain course material. Independently assessed student work.

## **RESEARCH EXPERIENCE**

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**MIT<sup>2</sup> Lab**, Dr. Peter Hancock

Orlando, FL

*Research Assistant*

Fall 2014 – Present

- Integrated concepts to fully design lab experiments
- Utilized hands on building knowledge to construct a surveillance robot
- Managed a team of undergraduates on multiple research projects
- Worked directly with participants
- Designed and distributed scientific survey to participants

**Team Performance Laboratory**, Dr. Florian Jentsch

Orlando, FL

*Research Assistant*

Fall 2016

- Developed and conducted literature review
- Designed and outlined research project guidelines
- Applied analytical writing skills

**University of Central Florida**, Psychology

Orlando, FL

*Independent Researcher*

Spring 2013 – Fall 2015

- Gained valuable knowledge of the Internal Review Board process
- Conducted and analyzed scientific surveys and response data
- Practiced analytical writing skills

**Institute for Simulation and Training**, Dr. Eduardo Salas

Orlando, FL

*Research Assistant*

Fall 2013 – Fall 2014

- Gained in-depth knowledge of topics through comprehensive literature review
- Supervised undergraduate research assistants
- Coded articles and findings of meta-analysis
- Aided in the development of a comprehensive framework

**Institute for Social and Behavioral Sciences**

Fall 2013 – Spring 2014

*Research Assistant*

- Obtained CITI certification to conduct social and behavioral research
- Conducted face-to-face computer-assisted personal interviews (CAPI)
- Aided in data collection

## PUBLICATIONS

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### Refereed Publications

1. Hancock, P.A., Sanders, T.L., Kessler, T., **Volante**, W., & Macarthur, K. (2015). Who will fly in the future: The human role in automated flight spaces. *Aerospace Medicine and Human Performance*, **86** (3), 224 (Abstract Only).
2. Hancock, P.A., **Volante**, W., & Szalma, J.L. (2016). Defeating the vigilance decrement. *IIE Transactions on Occupational Ergonomics and Human Factors*, **4** (2-3), 151-163.

### Refereed Conference Publications

1. Hughes, A.M., **Volante**, W.G., Stowers, K., Leyva, K., Oglesby, J.M., Bisbey, T., & Vidulich, M.A. (2014). Cognition and Physiological Response Towards a Model of Validated Physiological Measurement. *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*, **58** (1), 1009-1013.
2. Hancock, P.A., Sanders, T., & **Volante**, W. (2015). Quantitative Assessment of Qualitative Statements: What People Mean by Once in a Blue Moon. In: *Proceedings of the 19<sup>th</sup> Triennial Congress of the International Ergonomics Association*. Melbourne, Australia.
3. **Volante**, W. G., Dillon, A., Tolentino, L., Wilcox, J., Woodward, D., Sanders T. (2015). Social media use and acceptability of infidelity. In: *Proceedings of the 19<sup>th</sup> Triennial Congress of the International Ergonomics Association*. Melbourne, Australia.
4. Sanders, T.L., **Volante**, W., Kessler, T., Gabracht, K., Harpold, B., Oppold, P., & Hancock, P.A. (2015). The influence of robot form on trust. *Proceedings of the Human Factors and Ergonomics Society*, **59**, 1510-1514.
5. **Volante**, W.G., Stowers, K., & Hancock, P.A. (2016). Workload schedules tools for long duration space missions. In: *Proceedings of the NASA Investigators' Workshop on Frontiers in Human Space Exploration Research*, Galveston, TX, February, (Abstract Only).
6. Yerdon, V., Marlowe, T., **Volante**, W., Li, S., & Hancock, P.A. (2016). Investigating cross-cultural differences in trust levels of automotive automation. *Proceedings of the 7<sup>th</sup> International Conference on Applied Human Factors and Ergonomics*. Orlando, July.

7. Sanders, T., Schafer, E., **Volante**, W., Reardon, A., & Hancock, P.A. Implicit attitudes toward robots. *Proceedings of the Human Factors and Ergonomics Society*, **60**, 1744-1747.
8. **Volante**, W., Sanders, T., Dodge, D., Yerdon, V., & Hancock, P.A. (2016). Specifying influences that mediate trust in human robot interaction. *Proceedings of the Human Factors and Ergonomics Society*, **60**, 1753-1757.
9. **Volante**, W., Merz, M., Stowers, K., & Hancock, P.A. (2016). Sleep, workload and boredom: Subject matter expert insights. *Proceedings of the Human Factors and Ergonomics Society*, **60**, 1826-1830.

## PRESENTATIONS

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### International Academic Meetings

1. Hancock, P.A., Sanders, T., & **Volante**, W. Quantitative Assessment of Qualitative Statements: What People Mean by Once in a Blue Moon. Paper presented at the 19<sup>th</sup> Meeting of the International Ergonomics Association (IEA), Melbourne, Australia, August, 2015.
2. **Volante**, W. G., Dillon, A., Tolentino, L., Wilcox, J., Woodward, D., Sanders T. (2014). Social media use and acceptability of infidelity. Paper presented at the 19<sup>th</sup> Meeting of the International Ergonomics Association (IEA), Melbourne, Australia, August, 2015.
3. Yerdon, V., Marlowe, T., **Volante**, W., Li, S., & Hancock, P.A. Investigating cross-cultural differences in trust levels of automotive automation. Paper presented at the 7<sup>th</sup> International Conference on Applied Human Factors and Ergonomics. Orlando, July, 2016.

### National Academic Meetings

1. Hughes, A.M., **Volante**, W.G., Stowers, K., Leyva, K., Oglesby, J.M., Bisbey, T., & Salas, E. Underpinnings of Cognition in Physiological Measurement. Paper presented at the 6<sup>th</sup> Annual Embry-Riddle University Human Factors and Applied Psychology Conference, Daytona Beach, FL, April, 2014.
2. Hughes, A.M., **Volante**, W.G., Stowers, K., Leyva, K., Oglesby, J.M., Bisbey, T., & Vidulich, M.A. Cognition and Physiological Response Towards a Model of Validated Physiological Measurement. Paper presented at the 58<sup>th</sup> Annual Meeting of the Human Factors and Ergonomics Society, Chicago, IL, October, 2014.
3. **Volante**, W., Walker, T., Sanders, T., & Hancock, P.A. Navigating qualitative assessments of chance: Quantifying individual perceptions of distinct

expressions. Paper presented at the 7th Annual Embry-Riddle University Human Factors and Applied Psychology Conference, Daytona Beach, FL, April, 2015.

4. Hancock, P.A., Sanders, T., Kessler, T., Schafer, E., & **Volante**, W. What's a cockpit daddy? Doormen, elevator operators and other extinct species. Paper presented at the 18<sup>th</sup> International Symposium on Aviation psychology, Dayton, OH, May, 2015.
5. Walker, T., Sanders, T., Kessler, T., Sawyer, B., Stowers, K., **Volante**, W., MacArthur, K., Li, S., & Hancock, P.A. Human Factors and Ergonomics: Minds in Technology: Machines in Thought Laboratory. Paper presented at the 59<sup>th</sup> Annual Meeting of the Human Factors and Ergonomics Society, Los Angeles, CA, October, 2015.
6. Sanders, T.L., **Volante**, W., Stowers, K., & Kessler, T. The influence of robot form on trust. Paper presented at the 59<sup>th</sup> Annual Meeting of the Human Factors and Ergonomics Society, Los Angeles, CA, October, 2015.
7. **Volante**, W., Stowers, K., & Hancock, P.A. Workload schedules tools for long duration space missions. Paper presented at the NASA Investigators' Workshop on Frontiers in Human Space Exploration Research, Galveston, TX, February, 2016.
8. Reardon, A., **Volante**, W., Sanders, T., & Hancock, P.A. Using implicit associations to reveal hidden biases toward robots. Paper presented at the 10th Annual Conference on Human Factors and Applied Psychology, Daytona Beach, FL, April, 2016.
9. Hancock, P.A., Walker, T., Yerdon, V., **Volante**, W., Li, S.L., & Hancock, G.M. Accident events in automated vehicles. Paper presented at the 10th Annual Conference on Human Factors and Applied Psychology, Daytona Beach, FL, April, 2016.
10. **Volante**, W., Sanders, T., Reardon, A., & Hancock, P.A. Do you know if you trust a robot? Influences that mediate implicit and explicit trust. Paper presented at the 10th Annual Conference on Human Factors and Applied Psychology, Daytona Beach, FL, April, 2016.
11. Somerville, D., **Volante**, W., Sanders, T., & Hancock, P.A. The influence of appearance in human-robot interaction selection. Paper presented at the 10th Annual Conference on Human Factors and Applied Psychology, Daytona Beach, FL, April, 2016.
12. Stowers, K., Hancock, P.A., & **Volante** W.G. Human perception of robot appearance. Robotics Collaborative Technology Alliance (RCTA) Program Review Meeting. Philadelphia, May, 2016.

13. Yerdon, V.A., Marlowe, T.A., **Volante**, W.G., Li, S., & Hancock, P.A. Investigating cross-cultural differences in trust levels of autonomous automation. Paper presented at the 7th Annual International Conference on Applied Human Factors and Ergonomics, Orlando, Florida. July, 2016.
14. Kaplan, A., Walker, T., Sanders, T., Kessler, T., Stowers, K., **Volante**, W., MacArthur, K., & Hancock, P. A. Minds in Technology-Machines in Thought (MIT2) Laboratories. Paper presented at the 60th Annual Meeting of the Human Factors and Ergonomics Society, Washington, DC, September, 2016.
15. **Volante**, W., Sanders, T., Dodge, D., Yerdon, V., & Hancock, P.A. Specifying influences that mediate trust in human robot interaction. Paper presented at the 60th Annual Meeting of the Human Factors and Ergonomics Society, Washington, DC, September, 2016.
16. Sanders, T., Schafer, E., **Volante**, W., Reardon, A., & Hancock, P.A. Implicit attitudes toward robots. Paper presented at the 60th Annual Meeting of the Human Factors and Ergonomics Society, Washington, DC, September, 2016.
17. **Volante**, W., Merz, M., Stowers, K., & Hancock, P.A. Sleep, workload and boredom: Subject matter expert insights. Paper presented at the 60th Annual Meeting of the Human Factors and Ergonomics Society, Washington, DC, September, 2016.

## RELEVANT COURSE WORK

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- Statistical Methods in Psychology
- Introduction to Human Factors Psychology
- Physiological Psychology
- Psychological Measurement
- Introduction to Programming with C
- Calculus I,II,III
- Physics I,II
- Research Methods in Psychology
- Advanced Research Methods in Psychology I, II, III
- Cognitive Psychology
- Sensation and Perception
- Differential Equations
- Engineering Analysis-Statics
- Probability and Statistics for Engineers and Scientists

## PROFESSIONAL AFFILIATIONS

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| Human Factors and Ergonomics Society (HFES)                        | 2014 - Present |
| <ul style="list-style-type: none"> <li>• Student Member</li> </ul> |                |
| Aerospace Human Factors Association (AsHFA)                        | 2015 – Present |
| <ul style="list-style-type: none"> <li>• Student Member</li> </ul> |                |

## **TECHNICAL SKILLS**

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- Computer Skills: Windows & Mac OS, Microsoft Office, MathCAD, MAT Lab, SPSS
- Modeling programs: AutoCAD, AutoCAD Inventor, Solid Works
- Programming Languages: C, knowledgeable in HTML