

BRITTANY C. SELLERS

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EDUCATION

Aug. 2008 – Present	University of Central Florida, Orlando, Florida Ph.D. Program , Applied Experimental and Human Factors Psychology
Dec. 2013	University of Central Florida, Orlando, Florida Master of Arts (earned en route in Ph.D. Program), Applied Experimental and Human Factors Psychology
Aug. 2004 – Apr. 2008	Flagler College, St. Augustine, Florida Bachelor of Arts , Psychology

PROFESSIONAL HONORS & AWARDS

May 2013	<i>University of Central Florida, Orlando, FL</i> Fellowship Recipient , UCF Graduate Research Excellence Fellowship
Apr. 2013	<i>2013 Human Factors and Applied Psychology Student Conference at Embry-Riddle Aeronautical University, Daytona Beach, FL</i> Best Graduate Presenter Award
Apr. 2008	<i>Flagler College, St. Augustine, FL</i> “ Summa Cum Laude ” completion of undergraduate studies in psychology Department Award , Social and Behavioral Sciences

PROFESSIONAL CAREER

Oct. 2015 – Present	<i>Office of Sustainability and Energy, City of Orlando</i> City Energy Project Associate
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The City of Orlando is currently participating in the City Energy Project (CEP), a groundbreaking national initiative established to improve the energy efficiency of existing buildings in 10 major American cities. As the CEP Associate for Orlando, I work closely with the Program Manager (now Director of Sustainability) to develop sustainable energy policies and practices that both reduce pollution and advance economic development. In addition to local policy, we also work in partnership with other participating cities to support bold strategies that can be replicated by municipalities around the world.

As CEP Associate, my involvement spans research, outreach, and implementation. In this role, I conduct data collection to complete greenhouse gas reporting for the city and apply my research background in human factors, environmental attitudes and behaviors, and sustainable design to conduct research and analysis to provide multifaceted solutions for Orlando's CEP. Additionally, to devise locally-tailored policies and inform best practices for broader application in other cities, I work as part of a transdisciplinary team that is driven by outreach, engagement, and collaboration with a variety of stakeholders including government agencies, utilities companies, trade associations, building owners, managers, and operators, and labor interest groups. Finally, from this iterative process of research and collaboration, I create educational materials (articles, case studies, presentations), technical resources and toolkits, and coordinate workshops and training that are necessary to implement the building performance policies and programs.

June 2013 – Sept. 2015

Office of Sustainability Initiatives, University of Central Florida
Sustainability Researcher and Programs Coordinator

As the recipient of UCF's Office of Sustainability Initiatives' first-ever research grant and the UCF Graduate Research Excellence Fellowship, served as a sustainability researcher and conducted my dissertation research on the effectiveness of university's largest annual sustainability campaign, the Kill-A-Watt Competition, in terms of influencing student awareness, environmental attitudes, and energy-saving behaviors on campus, while also considering the influence of the built environment on these behaviors. Additionally, utilized a research-driven approach to adapt and implement the first-ever required university-wide transportation survey to improve greenhouse gas measurement and reporting, aided in the development of a sustainability literacy survey, and assisted in grant writing, policy development, annual goal-setting and attainment, and provision of website recommendations.

Served also in a coordinator capacity, in which I planned, managed, executed, evaluated, and revised the sustainability outreach efforts on campus, such as the Green Room Initiatives and Kill-A-Watt Competition at UCF. Developed and launched the highly successful Sustainability Innovation Competition. Conducted annual data collection and improved the quality of data reported, and policies and procedures for UCF as a signatory of American College and University Presidents Climate Commitment, Princeton Review's Guide to Green Colleges, UI Green Metric World University Ranking, President Hitt's Climate Goals, and other sustainability reporting programs to ensure that the university is meeting its goals in working towards carbon neutrality by 2050 and maintaining competitive performance internationally. Served as a judge and reviewer for the Orange County Green Schools Program and collaborated to conduct a sustainability modification evaluation and recommendation to Timber

Creek High School as part of Green Apple Day of Service, both on behalf of UCF.

Apr. 2010 – June 2013

Independent Research, University of Central Florida

Developed a line of research focused on exploring the factors associated with the decision to engage in pro-environmental behaviors, from both a behavior modification and usability design perspective. Planned and conducted experimental laboratory research, including conducting literature reviews, study design and development, research protocol approval, participant recruiting, design and administration of experimental procedures, data coding, statistical analyses, and preparing and publishing results. Trained, supervised, and managed undergraduate students during research.

Dec. 2010 – Aug. 2013

Team Performance Lab., University of Central Florida

Graduate Research Assistant

Assigned to contract research for the **U.S. Army Research Laboratory (HATS-ON SOURCE)**: *“Safe Operations for Unmanned Systems for Reconnaissance in Complex Environments”*

Planned and conducted experimental laboratory research, including conducting literature reviews, study development, research protocol approval, participant recruiting, design and administration of experimental procedures, data coding, statistical analyses, and preparing and publishing results. Trained, supervised, and managed undergraduate students during research.

Aug. 2008 – Dec. 2012

Team Performance Lab., University of Central Florida

Graduate Research Assistant

Contract Research for the **Transportation Security Laboratory**: *“Improving X-Ray Screeners Performance through Automated Target Rotation”*

Planned and conducted experimental laboratory research, including conducting literature reviews, study development, design and administration of experimental procedures, data coding, statistical analyses, and preparing and publishing results.

Planned and launched six-month experimental field study, including preparing study and developing training materials, holding a training meeting, data coding, and preliminary statistical analyses.

RESEARCH

Articles in Peer-Reviewed Journals

1. Fiore, S.M., Phillips, E., & **Sellers**, B.C. (2014). A Transdisciplinary Perspective on Hedonomic Sustainability. *Ergonomics in Design*, 22 (2), 22-29.
2. **Sellers**, B.C., Fiore, S.M., & Szalma, J. (2013). Developing a Scale of Environmental Efficacy. *International Journal of Sustainability Policy and Practice*, 8 (4), 170-195.
3. Schuster, D., Rivera, J., **Sellers**, B.C., Fiore, S.M., & Jentsch, F. (2013). Perceptual Training for Visual Search. *Ergonomics*, 56 (7), 1101-1115

Proceedings Papers

1. **Sellers**, B. C. & Fiore, S.M. (2013). Sustainable and user-centered: Applying human factors solutions towards improving usability within the realm of "green" building". *Proceedings of the 57th Annual Meeting of the Human Factors and Ergonomic Society*. Santa Monica, CA: Human Factors and Ergonomics Society.
2. Fincannon, T., Jentsch, F., **Sellers**, B.C., & Talone, A. (2013). Best practices in human operation of robotic/unmanned vehicles: A technical review. *Proceedings of the 57th Annual Meeting of the Human Factors and Ergonomic Society*. Santa Monica, CA: Human Factors and Ergonomics Society.
3. **Sellers**, B.C., Fincannon, F., & Jentsch, F. (2012). The effects of autonomy and cognitive abilities on workload and supervisory control of unmanned systems. *Proceedings of the 56th Annual Meeting of the Human Factors and Ergonomics Society*. Santa Monica, CA: Human Factors and Ergonomics Society.
4. Paz, M., **Sellers**, B.C., Fiore, S. M., & Richards, L. (2012). Integrating principles of environmental sustainability into human factors education: A recommendation. *Proceedings of the 56th Annual Meeting of the Human Factors and Ergonomics Society*. Santa Monica, CA: Human Factors and Ergonomics Society.
5. Fincannon, T., Jentsch, F., **Sellers**, B., & Keebler, J. R. (2012). Beyond “spatial ability”: Examining the impact of multiple individual differences in a perception-by-proxy framework. *Proceedings of the 7th ACM/IEEE International Conference on Human-Robot Interaction*. Boston, MA.
6. **Sellers**, B., Fincannon, T., Jentsch, F. (2011). Indexing spatial ability across team size: The influence of the weakest link, strongest link, and aggregate ability on performance with multiple unmanned systems. *Proceedings of the 55th Annual Meeting of the Human Factors and Ergonomics Society*. Santa Monica, CA: HFES.
7. **Sellers**, B., Rivera, J. A., Fiore, S. M., Schuster, D., & Jentsch, F. (2010). Assessing X-ray security screening detection following training with and without threat-item overlap. *Proceedings of the 54th Annual Meeting of the Human Factors and Ergonomics Society*. Santa Monica, CA: Human Factors and Ergonomics Society.

8. Phillips, E., **Sellers**, B., & Fiore, S. M. (2010). Human centric environmentalism: Opportunities for the human factors community to contribute to global environmental solutions. *Proceedings of the 54th Annual Meeting of the Human Factors and Ergonomics Society*. Santa Monica, CA: Human Factors and Ergonomics Society.
9. Schuster, D., Rivera, J., **Sellers**, B., Fiore, S. M., & Jentsch, F. (2010). Component versus holistic visual search training for improvised explosive detection. *Proceedings of the Human Factors and Ergonomics Society 54th Annual Meeting*. Santa Monica, CA: HFES.
10. Schuster, D., **Sellers**, B., Rivera, J., Fiore, S. M., & Jentsch, F. (2010). Individually adaptive discrimination training for improvised explosive detection. *Proceedings of the Human Factors and Ergonomics Society 54th Annual Meeting*. Santa Monica, CA: Human Factors and Ergonomics Society.
11. **Sellers**, B., Fiore, S. M., Rivera, J. A., Jentsch, F. (2009). Research issues for collaborative versus individual training in the X-ray security screening task. *Proceedings of the 53rd Annual Meeting of the Human Factors and Ergonomics Society*. Santa Monica, CA: Human Factors and Ergonomics Society.

Conference Presentations without Proceedings

(Presentations with proceedings are not included; see above)

1. **Sellers**, B.C. (2015, June). *Positively green: Identifying the synergetic benefits of happiness and sustainability*. To be presented at the Fourth World Congress on Positive Psychology, Lake Buena Vista, FL.
2. **Sellers**, B.C. & Fiore, S.M. (2013, April). *Encouraging sustainable practices on campus: Investigating the influence of the built environment and individual differences on pro-environmental behaviors*. Presented at the 2013 Human Factors and Applied Psychology Student Conference, Embry-Riddle Aeronautical University, Daytona Beach, FL.
3. Phillips, B., Fiore, S.M., & **Sellers**, B.C. (2012, August). *Examining the influence of individual time perspective and narrative film on environmental attitude change*. Presented at the 120th Annual Convention of the American Psychological Association, Orlando, FL.
4. **Sellers**, B.C., Fiore, S.M., Paz, M., & Richards, L. (2012, April). *Integrating principles of environmental sustainability into human factors education and engineering*. Presented at the 2012 Human Factors and Applied Psychology Student Conference, Daytona Beach, Florida.
5. **Sellers**, B.C., Fiore, S.M., & Szalma, J. (2012, January). *Developing a scale of environmental efficacy*. Presented at the 8th Annual International Conference on Environmental, Cultural, Economic and Social Sustainability, Vancouver, British Columbia, Canada.
6. **Sellers**, B.C., Fiore, S.M., & Phillips, E. (2011, November). *Examining how film can inform and persuade in the area of environmental ethics*. Presented at the 2011 Beyond Sustainability: Ecosystems, Economics and Education Conference, Plant City, Florida.

7. Fiore, S.M., **Sellers**, B., & Phillips, E. (2010, October). *Exploring the use of narrative film to inform and persuade in the area of environmental ethics: FLOW*. Presented at the 2nd Annual Humanities and Sustainability Conference, Florida Gulf Coast University, Fort Myers, Florida.

Other Presentations

1. **Sellers**, B.C. (2015, July). *Daring and green: Confidence in the sustainability movement starts with you*. Presented at Orlando PechaKucha Night, v.16, Orlando, FL.
2. **Sellers**, B.C. & Fiore, S.M. (2013, April). *Encouraging environmental behaviors on campus: A study of students' environmental attitudes, behaviors, and awareness of current sustainability initiatives at UCF*. Presented at the 10th Annual Graduate Research Forum: Showcase of Diverse Student Research, University of Central Florida, Orlando, FL.
3. **Sellers**, B.C. & Fiore, S.M. (2012, September). *Why did you leave the water running? Examining the factors that play a role in pro-environmental behaviors*. Presented at the Institute of Simulation and Training's Lunch 'n' Learn Lecture Series, Orlando, FL.
4. **Sellers**, B.C., Stringfellow, A., & Richards, T. (2012, September). *Behavior and the environment: Waste*. Presented at The University of Central Florida Arboretum's Educational Workshop Series, Orlando, FL.
5. **Sellers**, B.C., Fiore, S.M., Phillips, E., Szalma, J., Richards, L., & Paz, M. (2012, April). *Why do individuals choose to engage in pro-environmental behaviors and how can we support them in this decision?* Presented at the 9th Annual Graduate Research Forum: Showcase of Diverse Student Research, University of Central Florida, Orlando, FL.
6. Miller, J., **Sellers**, B., Jentsch, F., & Fincannon, T. (2012, April). *UAV optics usability analysis for urban search and rescue missions*. Presented at the 9th Annual Undergraduate Research Forum: Showcase of Diverse Student Research. University of Central Florida, Orlando, FL.
7. **Sellers**, B.C., Fiore, S.M., Paz, M., & Richards, L. (2012, April). *Human-centric environmentalism: A human factors approach toward sustainability*. Guest lecture presented in a course on 'Social and cultural aspects of sustainability in the built environment' at The University of Florida, Gainesville, Florida.
8. **Sellers**, B.C., Stringfellow, A., & Richards, T. (2012, March). *Behavior and the environment: Food*. Presented at The University of Central Florida Arboretum's Educational Workshop Series, Orlando, FL.

SERVICE TO THE PROFESSION

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| 2015 | Judge and Reviewer , Orange County Green Schools Program
Volunteer , Sustainability Liaison for Planning Committee, Orlando Chili Cook Off
Reviewer , <i>Applied Ergonomics</i> |
| 2014 | Volunteer , Sustainability Evaluation and Recommendations, Timber Creek High School, Green Apple Day of Service
Reviewer , Conference Submissions, Student Forum, <i>58th Annual Meeting of the Human Factors and Ergonomics Society</i> |

- 2013 **Reviewer**, Conference Submissions, Training Technical Group, *57th Annual Meeting of the Human Factors and Ergonomics Society*
Reviewer, “Best Student Paper”, Training Technical Group, *57th Annual Meeting of the Human Factors and Ergonomics Society*
- 2012 **Associate Editor and Reviewer**, *International Journal of Environmental, Cultural, Economic and Social Sustainability*
Reviewer, “Best Student Paper”, Training Technical Group, *56th Annual Meeting of the Human Factors and Ergonomics Society*
- 2011 **Reviewer**, “Best Student Paper”, Training Technical Group, *55th Annual Meeting of the Human Factors and Ergonomics Society*
International Book Drive Co-Coordinator, the Human Factors and Ergonomics Society
- 2010 **Reviewer**, “Best Student Paper”, Cognitive Engineering and Decision Making Technical Group, *54th Annual Meeting of the Human Factors and Ergonomics Society*
International Book Drive Co-Coordinator, the Human Factors and Ergonomics Society
Social Chair, University of Central Florida’s Human Factors and Ergonomics Society Student Chapter
- 2009 **Reviewer**, “Best Student Paper”, Cognitive Engineering and Decision Making Technical Group, *53rd Annual Meeting of the Human Factors and Ergonomics Society*
International Book Drive Co-Coordinator, the Human Factors and Ergonomics Society
Social Chair, University of Central Florida’s Human Factors and Ergonomics Society Student Chapter
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References available upon request.

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