

Stephanie Carnell

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Education

- 2020 PhD in Human-Centered Computing, University of Florida
- Advisor: Dr. Benjamin Lok
 - Committee: Dr. Kristy Boyer, Dr. Kejun Huang, Dr. Pavlo Antonenko
- 2019 MS in Computer Science, University of Florida
- 2014 BA in Physics with minors in Mathematics and Computer Science, Samford University

Work Experience

- 2021 - pres. Postdoctoral Scholar, University of Central Florida
- 2014 - 2020 Graduate Research Assistant, University of Florida
- Sum. 2018 PhD Research Intern, Massachusetts Institute of Technology Lincoln Laboratory
- Sum. 2017 User Experience (UX) Research Intern, Facebook

Publications

PEER-REVIEWED JOURNAL ARTICLES

- 2022 **Carnell, S.**, Miles, A., and Lok, B. (2021). "Evaluating Virtual Patient Interaction Fidelity with Advanced Communication Skills Learners." Virtual Reality in Medicine (Special Edition) *Frontiers in Virtual Reality*.
- 2020 Miles, A., Hayden, S., Halan, S., **Carnell, S.**, and Lok, B. (2020). "What do speech pathology students gain from virtual patient interviewing? A WHO ICF analysis." *BMJ Simulation and Technology Enhanced Learning*.
- 2019 Hirsh, A., Miller M., Hollingshead, N., Anastas, T., **Carnell, S.**, Lok, B., Chu, C., Zhang, Y., Robinson, M., & Ashburn-Nardo, L. (2019). "A randomized controlled trial testing a virtual perspective-taking intervention to reduce race and SES disparities in pain care." *Pain*. **Editor's Choice**.

REFEREED CONFERENCE PROCEEDINGS

- 2019 **Carnell, S.**, Lok, B., James, M., & Su, J. (2019, March). "Predicting Student Success in Communication Skills Learning Scenarios with Virtual Humans." *International Conference on Learning Analytics and Knowledge*, pg. 436-440. ACM.
- 2018 **Carnell, S.** & Lok, B. (2018, November). "The Effects of Author Identity on Dialogue for Virtual Human Communication Skills Training." *Intelligent Virtual Agents*, pg.

65-70. ACM.

- 2015 **Carnell, S.**, Halan, S., Crary, M., Madhavan, A., & Lok, B. (2015, August). "Adapting Virtual Patient Interviews for Interviewing Skills Training of Novice Healthcare Students." *Intelligent Virtual Agents*, pg. 50-59. Springer International Publishing.

PRESENTATIONS AND POSTERS

- 2022 **Carnell, S.** (2022) "Talking Like Others: Identity and Language in Conversational User Interfaces." *ACM Conference on Computer-Human Interaction: CUI@CHI Workshop*, Workshop presentation, Online, USA, April 21.

Li, L., **Carnell, S.**, Harris K., and Cruz-Neira C. (2022) "An Interactive System for Livestreaming Virtual Reality Field Trips" *University of Central Florida Student Scholar Symposium*. Poster, Orlando, USA, March 30.

Avendano, I.*, **Carnell, S.**, and Cruz-Neira, C. (2022). "ReCapture: A virtual reality interactive narrative experience concerning photography, perspectives, and self-understanding". *Engineering Reality of Virtual Reality*. Presentation, Online, USA, January 20.

- 2018 **Carnell, S.** and Zalake, M. (2018). "Virtual Humans, Real Changes." *Digital Orlando*. Oral Presentation, Orlando, USA, April 10.

Carnell, S. (2018). "Virtual Reality for the Social Good." *Florida Society of Social Sciences: Conference of the Social Sciences*. Workshop Presentation, Gainesville, USA, April 14.

Anastas, T., Miller, M., Hollingshead, N., **Carnell, S.**, Lok, B., & Hirsh, A. (2018). "Providers' implicit and explicit attitudes about race and socioeconomic status influence their pain treatment recommendations." *17th World Congress on Pain*. Poster, Boston, MA, September 12-16.

Clark, E., Anastas, T., Miller, M., Hollingshead, N., **Carnell, S.**, Lok, B., & Hirsh, A. (2018). "Compassion for patients mediates racial and socioeconomic differences in providers' pain treatment decisions." *17th World Congress on Pain*. Poster, Boston, MA, September 12-16.

Carnell, S., & Lok, B (2018). "Observations on Social Good Applications Created by New Developers." *IEEE Virtual Reality*. Workshop Presentation, Reutlingen, Germany, March 18-22.

- 2017 Ward, E.C., Rumbach, A., Hill, A.E., Nund, R., Goodman, S., **Carnell, S.**, & Lok, B., (2017). "Using different Simulation Learning Activities for Clinical Skill Development in Dysphagia: What works?" *American Speech and Hearing Association*. Oral Presentation, Los Angeles, USA, November 9-11.

* denotes a mentored undergraduate student.

DISSERTATION

- 2020 **Carnell, S.** (2020). Using Virtual Human Scenarios to Study and Improve Communication Skills Learners' Message Production. Ph.D. Dissertation, Computer and Information Sciences and Engineering Department, University of Florida.

MANUSCRIPTS IN SUBMISSION

- 2021 **Carnell, S.**, Gomes de Siqueira, A., Miles, A., and Lok, B. "Informing and Evaluating Educational Virtual Reality Design with the Kirkpatrick Model: Using a Virtual Human Scenario to Measure Communication Skills Behavior Change." *Frontiers in Virtual Reality*.
- Miles, A., **Carnell, S.**, and Lok, B. "Can virtual patients support empathy training in healthcare education?" *Simulation in Healthcare*.

MANUSCRIPTS IN PREPARTION

- 2022 Gomes de Siqueira, A., García, P. G. F., **Carnell, S.**, Palmeira, E. G. Q., and Maxim, A. H. "Toward Mitigating Programming Anxiety with Storytelling and Tangible Block Programming Environments."

Conference Participation

WORKSHOPS ORGANIZED

- 2020 Zalake, M., **Carnell, S.**, and Gomes de Siqueira, A. (2020). "Co-VAR: Collaborations with Domain Experts for Virtual Agent Research." *ACM International Conference on Intelligent Virtual Agents*. Online, October 18.

Invited Talks

NATIONAL

- 2018 "Virtual Humans." *Massachusetts Institute of Technology Lincoln Laboratory*. Lexington, USA. July.

CAMPUS

- 2019 Lok, B., **Carnell, S.**, and Putnam, S. "Virtual Reality for the Social Good." *The Learning Technology Consortium* Gainesville, USA, October 24.
- 2018 "Virtual Reality for the Social Good." *University of Florida Computers and Modern Society Course*. Gainesville, USA, October 30.

Honors & awards

2019	Grace Hopper Scholar, Anita Borg Institute
2014 - 2019	Graduate School Fellowship, UF Graduate School
2018	Gartner Group Info Tech Fund Scholarship, UF Department of Computer and Information Sciences and Engineering
2018	Intern Innovative Idea Challenge Winner, MIT Lincoln Laboratory
2017	Grace Hopper Conference Scholarship, Intel
2016	Grace Hopper Scholar, Anita Borg Institute
2014 - 2015	Hohenstein Fellowship, Phi Kappa Phi
2014	Board of Education Summer Fellowship, UF Office of Graduate Minority Programs
2014	Velma Wright Irons Award for Second Highest GPA in Graduating Class, Samford University
2014	Who's Who Among Students in American Universities and Colleges
2014	Physics Department Scholarship, Samford University Physics Department
2012 - 2014	Minority Scholarship, American Physical Society
2012	Witherspoon Institute attendee, Princeton University
2010 - 2014	University Fellow, Samford University

Teaching

UNIVERSITY OF CENTRAL FLORIDA

2022	"Virtual Humans and Virtual Human Research." <i>University of Central Florida Advanced Virtual Reality Course</i> . Orlando, USA, February 25.
2021	"User Input and Tracking." <i>University of Central Florida Fundamentals of Virtual Reality Course</i> . Orlando, USA, October 19. <i>Guest Lecture</i>
	"Presence." <i>University of Central Florida Fundamentals of Virtual Reality Course</i> . Orlando, USA, September 21. <i>Guest Lecture</i>

UNIVERSITY OF FLORIDA

Fall 2017	Virtual Reality for the Social Good, Teaching Assistant
Spring 2017	Human-Computer Interaction, Teaching Assistant
Fall 2014	User Experience Design, Teaching Assistant

SAMFORD UNIVERSITY

2013 - 2014	Mathematics department calculus and statistics tutor
2013 - 2014	Communication Resource Center writing tutor
2012 - 2013	Physics Department lab assistant
2011 - 2013	University Fellows Great Ideas Summer Institute preceptor
Fall 2012	Scientific Inquiry course, Preceptor/Teaching Assistant

Service

IEEE VIRTUAL REALITY CONFERENCE

- 2022 Conference Track International Program Committee
- 2021 - pres. Inclusion, Diversity, and Accessibility Co-chair

UNIVERSITY OF CENTRAL FLORIDA POSTDOCTORAL ASSOCIATION

- 2021 - pres. Webmaster

REVIEWS

Journals

- Expert Systems with Applications
- Human-Computer Interaction
- Frontiers in Public Health
- International Journal of Human-Computer Studies
- Virtual Reality (Springer)

Conferences

- Intelligent Virtual Agents
- Symposium on Applied Perception
- Grace Hopper Celebration of Women in Computing
- IEEE Virtual Reality
- Florida Undergraduate Research Conference (FURC)

Admissions

- Samford University Fellows Program Admissions

Languages

- French - conversational (CEFR estimate: B1)
- Korean - beginner

Affiliations

- 2021 - pres. Institute of Electrical and Electronics Engineers (IEEE)
- 2019 - pres. User Experience Professional Association (UXPA)
- 2019 - pres. American Indian Science and Engineering Society (AISES)
- 2019 - pres. ACM Special Interest Group in Computer-Human Interaction (SIGCHI)
- 2019 - pres. Association of Computing Machinery (ACM)
- 2017 - pres. Society for Advancing Chicanos/Hispanics & Native Americans in Science (SACNAS)
- 2015 - 2017 Graduate Women in CS Lean In Circle
- 2013 - 2015 Phi Kappa Phi
- 2012 - 2014 Society of Physics Students

