

# STEPHANIE J. LUNN

CURRICULUM VITAE

Email: [sjlunn@fiu.edu](mailto:sjlunn@fiu.edu)

## EDUCATION

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- Doctor of Philosophy, Computer Science** May 2021  
*Florida International University* Miami, FL  
Dissertation: “Technical Interviews: Another Barrier to Broadening Participation in Computing?”  
Advisor: Dr. Monique Ross
- Master of Science, Computer Science** July 2020  
*Florida International University* Miami, FL
- Bachelor of Science, Computer Science** December 2016  
*Florida International University* Miami, FL
- Master of Science, Neuroscience** June 2012  
*University of Miami, Miller School of Medicine* Miami, FL  
Thesis: “A Proinflammatory Role for Eph Receptors after Spinal Cord Injury”
- Bachelor of Science, Neuroscience; Minor in Chemistry** May 2007  
*University of Miami* Coral Gables, FL  
Honors Thesis: “TGF- $\beta$  Signaling Pathway and Extracellular Matrix Modification Following Acute Retinal Ischemia/Reperfusion Injury”

## PROFESSIONAL AND RESEARCH EXPERIENCE

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- Postdoctoral Fellow** June 2021-Present  
*The Wallace H. Coulter Department of Biomedical Engineering* Atlanta, GA  
*Georgia Institute of Technology and Emory University School of Medicine*
- Research Associate** June 2020-July 2021  
*SageFox Consulting Group* Amherst, MA
- Undergraduate and Graduate Research Assistant** May 2015-June 2021  
*Knight Foundation School of Computing and Information Sciences* Miami, FL  
*Florida International University (FIU)*
- Marketing Director** February 2014-May 2015  
*ScienceSavings.com* Miami, FL
- Field Network Coordinator** November 2012-February 2014  
*Magellan Health Services* Miami, FL
- Graduate Research Assistant** July 2007-June 2012  
*The Miami Project to Cure Paralysis, University of Miami (UM)* Miami, FL

## PUBLICATIONS (As Stephanie J. Glass and under Stephanie J. Lunn)

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### JOURNAL PUBLICATIONS (8):

- [1] **S. Lunn\***, M. Marques Samary\*, S. Hambrusch, & A. Yadav. (2022). Forging a Path: Faculty Interviews on the Present and Future of Computer Science Education in the United States. *ACM Trans. Comput. Educ.* <http://dx.doi.org/10.1145/3546581>
- [2] **S. Lunn**, C. Bell-Huff, & J. Le Doux (2022). Learning to Care: Faculty Perspectives on Developing Empathy and Inclusive Mindsets in Biomedical Engineering. *Journal of Biomedical Engineering Education.* <https://doi.org/10.1007/s43683-022-00077-0>
- [3] **S. Lunn**, M. Ross, Z. Hazari, M. A. Weiss, M. Georgiopoulos, K. Christensen. (2021). How do educational experiences predict computing identity?. *ACM Trans. Comput. Educ.* 22, 2, Article 12 (November 2021), 28 pages. <https://doi.org/10.1145/3470653>

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- [4] Boustani M., **Lunn S.**, Visser U., Lisetti C. (2021). Development, Feasibility, Acceptability, and Utility of an Expressive Speech-Enabled Digital Health Agent to Deliver Online, Brief Motivational Interviewing for Alcohol Misuse: Descriptive Study. *J Med Internet Res* 2021;23(9):e25837 doi: [10.2196/2021.23.9.e25837](https://doi.org/10.2196/2021.23.9.e25837)
- [5] **S. Lunn**, L. Zahedi, M. S. Ross, M. W. Ohland. (2021). Exploration of intersectionality and computer science demographics: Understanding the phenomena related to historical shifts. *ACM Trans. Comput. Educ.* 21, 2, Article 10 (March 2021), 30 pages. <https://dl.acm.org/doi/10.1145/3445985>
- [6] Shernoff, E., Frazier, S., Lisetti, C., Buche, C., **Lunn, S.**, Brown, C., Delmarre, A., Chou, T., Gabbard, J., Morgan, E. (2018). Early Career Teacher Professional Development: Bridging Simulation Technology with Evidence-Based Behavior Management. *Journal of Technology and Teacher Education*, 26, no. 2. (2018); 299-326.
- [7] Theus MH, Ricard J, **Glass SJ**, Garcia L, Liebl DJ. (2014, May). EphrinB3 blocks EphB3 dependence receptor functions to prevent cell death following traumatic brain injury. *Cell Death and Disease*, 5:e1207. <https://doi.org/10.1038/cddis.2014.165>
- [8] Nelersa CM, Barreras H, Runko E, Ricard J, Shi Y, **Glass SJ**, Bixby JL, Lemmon VP, Liebl DJ. High-Content analysis of proapoptotic EphA4 dependence receptor functions using small-molecule libraries. *J Biomol Screen.* (2012 Jul); 17(6):785-95. <https://doi.org/10.1177/1087057112440880>

## CONFERENCE PROCEEDINGS (21):

- [1] **S. Lunn**, C. Bell-Huff, & J. Le Doux (2022). Establishing a Rubric to Assess Students' Empathy Development Using Artifacts from Biomedical Engineering Courses. *Frontiers in Education (FIE) 2022* conference, IEEE, Uppsala, Sweden. [Accepted](#)
- [2] **S. Lunn**, C. Bell-Huff. (2022, June). What Story Do You Want to Tell? Developing Empathy in Engineering Students through an Extra-Curricular Narrative Sharing Experience. In proceedings of the *2022 American Society of Engineering Education (ASEE)*.
- [3] **S. Lunn**, C. Bell-Huff, J. LeDoux. (2022, February). Cultivating Inclusivity: A Systematic Literature Review on Developing Empathy for Undergraduate Students in STEM Fields. In proceedings of the *Collaborative Network for Engineering & Computer Diversity (CoNECD) 2022* conference.
- [4] **S. Lunn**, E. Zerbe, M. Ross. (2022, February). Need for Change: How Interview Preparation and the Hiring Process in Computing can be made more Equitable. In proceedings of the *Collaborative Network for Engineering & Computer Diversity (CoNECD) 2022* conference.
- [5] **S. Lunn**, M. Ross, J. Liu. (2021, December). Cybersecurity Integration: Deploying Critical Infrastructure Security and Resilience Topics into the Undergraduate Curriculum. In proceedings of the *2021 International Conference on Computational Science and Computational Intelligence (CSCI)*, IEEE.
- [6] **S. Lunn**, M. Ross. (2021, October). Methodology Matters: Employing Phenomenography to Investigate Experiences in Computing Fields and the Application of Theoretical Frameworks. In proceedings of the *Frontiers in Education (FIE) 2021* conference, IEEE.
- [7] **S. Lunn**, M. Ross. (2021, July). Unnecessary Hurdles: A Systematic Literature Review Examining the Hiring Process in Computing. In proceedings of the *17th International Conference on Frontiers in Education: Computer Science and Computer Engineering (FECS'21)*.
- [8] M. Marques Samary\*, **S. Lunn\***, A. Peterfreund. (2021, July). Collaborative Culture: Analyzing Global Trends in Computing Education. In proceedings of the *17th International Conference on Frontiers in Education: Computer Science and Computer Engineering (FECS'21)*.
- [9] M. Kargarmoakhar, **S.J. Lunn**, M. S. Ross, Z. Hazari, M. Weiss, M. Georgiopoulos, K. Christensen, T. Solis. (2021, July). Impact of social support on students' interest in pursuing a graduate degree in a computing field. In proceedings of the *Annual American Society for Engineering Education (ASEE)* conference.
- [10] **S. Lunn**, M. Ross. (2021, July). Cracks in the foundation: Issues with diversity and the hiring process in computing fields. In proceedings of the *Annual American Society for Engineering Education (ASEE)* conference.
- [11] **S. Lunn**, M. Ross, Z. Hazari, M. A. Weiss, K. Christensen, M. Georgiopoulos, T. Solis. (2021, July). Uneven playing field: Examining preparation for technical interviews in computing and the role of cultural experiences. In proceedings of the *Annual American Society for Engineering Education (ASEE)* conference.
- [12] **S. Lunn**, M. Ross, Z. Hazari, M. A. Weiss, K. Christensen, M. Georgiopoulos. (2021, June). The impact of technical interviews, and other professional and cultural experiences on students' computing identity. In proceedings of the *26th annual conference on Innovation and Technology in Computer Science Education (ITiCSE)*, ACM.

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- [13] **S. Lunn**, M. Ross. (2021, May). Ready to Work: Evaluating the Role of Community Cultural Wealth during the Hiring Process in Computing. In proceedings of the *IEEE Conference on Research in Equity and Sustained Participation in Engineering, Computing, and Technology (RESPECT)*.
- [14] **S. Lunn\***, M. Marques Samary\*, A. Peterfreund. (2021, March). Where is computer science education research happening? In proceedings of the *SIGCSE '21: ACM Special Interest Group on Computer Science Education (SIGCSE)*, ACM.
- [15] L. Zahedi, H. Ebrahimejad, M. S. Ross, M. W. Ohland, **S.J. Lunn**. (2021, January). Multi-institution study of student demographics and stickiness of computing majors in the USA. In proceedings of the *Collaborative Network for Engineering and Computing Diversity (CoNECD)*.
- [16] M. Kargarmoakhar, **S.J. Lunn**, L. Zahedi, M. S. Ross, Z. Hazari, M. Weiss, M. Georgiopoulos, K. Christensen, T. Solis. (2020, October). Understanding the experiences that contribute to the inclusion of underrepresented groups in computing. In proceedings of the 2020 *Frontiers in Education (FIE)* conference, IEEE.
- [17] **S.J. Lunn**, J. Zhu, M. S. Ross. (2020, October). Utilizing web scraping and natural language processing to better inform pedagogical practice. In proceedings of the 2020 *Frontiers in Education (FIE)* conference, IEEE.
- [18] L. Zahedi, **S.J. Lunn**, S. Pouyanfar, M. S. Ross, M. W. Ohland, (2020, June). Leveraging machine learning techniques to analyze computing persistence in undergraduate programs. In proceedings of the *127th Annual American Society for Engineering Education (ASEE) Conference*, Montréal, Canada.
- [19] A. Delamarre, **S. Lunn**, C. Buche, E. Shernoff, S. Frazier, C. Lisetti. (2019, July). Interdisciplinary collaboration and establishment of requirements for a 3D interactive virtual training for teachers. In proceedings of the *19th ACM International Conference on Intelligent Virtual Agents*, ACM, pp. 185–187.
- [20] A.P. Delamarre, C. Buche, M. Polceanu, **S. Lunn**, G. Ruiz, S. Bolivar, E. Shernoff, C. Lisetti. (2017, May). An Interactive Virtual Training (IVT) simulation for early career teachers to practice in 3D classrooms with student avatars. In proceedings of the *Thirtieth International Flairs Conference*.
- [21] M. Theus, **S.J. Glass**, D. Liebl. (2011, July). Neuroprotective effects of EphrinB3 following traumatic brain injury. In proceedings of the *29th Annual National Neurotrauma Symposium, National Neurotrauma Society*, 2011.

## CONFERENCE AND SYMPOSIA TALKS AND WORKSHOPS (6):

- [1] C. Bell-Huff, **S. Lunn**, R. Simmons, K. Gipson, A. Trowbridge, C. Hochgraf. (2022, February). Exploring LegaCs: A multi-institutional, story-driven experience for students. Workshop session at the *2022 Kern Entrepreneurial Engineering Network (KEEN) National Conference*. Virtual.
- [2] M. M. Boustani, **S. Lunn**, M. Polceanu, U. Visser, C. Lisetti. (2021, November). Acceptability and feasibility of using an online digital health agent to deliver MI to treat alcohol abuse: Consumer Perspectives. Symposium presented at the *55th Annual Convention of the Association of Behavioral and Cognitive Therapies (ABCT)*. Virtual.
- [3] **S. Lunn**, L. Zahedi, M. S. Ross, M. W. Ohland. (2021, March). Exploration of intersectionality and computer science demographics: Understanding the phenomena related to historical shifts. Presented at the *NSF Re-Enter STEM Through Emerging Technology (RESET)* conference. Virtual.
- [4] M. M. Boustani, **S. Lunn**, M. Polceanu, C. Lisetti. (2019, November). In A. L. Park (Chair) and S. Huey (Discussant). Increasing consumer engagement with computer-delivered behavioral interventions: Incorporating verbal reflections and non-verbal gestures to a digital health agent. Symposium presented at the *53rd Annual Convention of the Association of Behavioral and Cognitive Therapies (ABCT)*. Atlanta, GA.
- [5] M. M. Boustani, J. Hazari, **S. Lunn**, M. Polceanu, C. Lisetti. (2019, November). In J. Schreidar (Chair) and Schueller, S. (Discussant). Acceptability, feasibility, and usefulness of using a digital health agent to deliver MI to treat alcohol abuse: Clinician perspectives. Symposium presented at the *53rd Annual Convention of the Association of Behavioral and Cognitive Therapies (ABCT)*. Atlanta, GA.
- [6] **S.J. Glass**, M. Theus, Z. Zhuang, D. Liebl. (2010, November). The pro-inflammatory role of Eph receptors following spinal cord injury. Nanosymposium presented at the *Annual Society for Neuroscience (SfN)* meeting. San Diego, CA.

## POSTER PRESENTATIONS (10):

- [1] J. Zhu, **S. Lunn**, M. Ross. (2022, August). Career Transitions: Exploration of Women's Trajectories into a Computing Role. In *Proceedings of the 2022 ACM Conference on International Computing Education Research V.2 (ICER '22), August 7–11, 2022, Lugano and Virtual Event, Switzerland*. ACM, New York, NY, USA.

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- [2] L. Zahedi, **S. Lunn**, M. Ross. (2020, September). A comparative analysis of machine learning techniques for predicting student persistence in computing programs. *Richard Tapia Celebration of Diversity in Computing*, Virtual conference.
- [3] **S. Lunn**, C. Lisetti. (2019, October). Manipulation of smile, gaze, and proximity for virtual agents during greetings on users' perceived immediacy. *SCIS Research Day*, Florida International University, Miami, FL.
- [4] E. Shernoff, J. Gabbard, C. Lisetti, C. Brown, A. Delamarre, **S. Lunn**, S. Liz, Z. Bibi, M. White. (2018, February). Formative evaluation of interactive virtual training: A mixed-method study. *National Association of School Psychologists*, Chicago, IL.
- [5] E. Shernoff, A. Walzer, E. Morgan, **S. Lunn**, C. Lisetti, S. Frazier. (2017, February). The development and refinement of interactive virtual training model (IVT). *National Association of School Psychologists*, San Antonio, TX.
- [6] Chou, T., Shernoff, E., Sanchez, A., Frazier, S., Lisetti, C., **Lunn, S.**, Brown, C. (2016, October). Iterative development in action: Building interactive virtual training for early career educators. *50th annual meeting of the Association for Behavioral and Cognitive Therapies SIG Poster Exposition*, New York City, NY.
- [7] **Glass SJ**, Theus MH, Zhuang Z, Liebl DJ. (2011, December). Eph receptors are involved in the pro-inflammatory response following spinal cord injury. *Neuroscience Research Day*, University of Miami, Miami, FL.
- [8] **Glass SJ**, Theus, MH, Zhuang Z, Liebl DJ. (2011, May). Eph receptors are involved in the pro-inflammatory response following spinal cord injury. *Immunology*, San Francisco, CA.
- [9] **Glass SJ**, Theus MH, Zhuang Z, Liebl DJ. (2010). The pro-inflammatory role of Eph receptors following spinal cord injury. *Society for Neuroscience*, San Diego, CA.
- [10] **Glass SJ**, Wang YL, Hernandez E, Fini ME, Bajenaru ML. (2008). TGF- $\beta$  signaling pathway and extracellular matrix modification following retinal ischemia/reperfusion injury. *Association for Research in Vision and Ophthalmology (ARVO)*, Fort Lauderdale, FL.

## FELLOWSHIPS, SCHOLARSHIPS, AND AWARDS

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- Engineering Education Research Peer Reviewer Training (EER PERT) program for NSF proposal review 2022
- Conference scholarship for the 2021 NSF RESET virtual conference 2021
- FIU SCIS Research Day poster presentation winner 2019
- Presidential Director's Fellowship (FIU) recipient 2017-2020
- Team winners of the FIU Global Game Jam (a game development hackathon) 2017
- Service Excellence Reward Program award, Magellan Health Services 2013
- Who's Who Among College Students in American Universities and Colleges for Graduate Students 2011
- University of Miami Fellowship recipient 2007-2010
- Lois Pope LIFE Fellows Award recipient 2007-2010
- Max Planck Institute: Research trainee exchange program; Martinsried, Germany 2010
- Florida Scholars recipient 2007-2008
- Research and Creativity Day Forum (UM) poster presentation winner 2007
- Florida Academic Scholars recipient 2003-2008
- Bowman Foster Ashe Scholarship recipient 2003-2007

## RESEARCH SUPERVISION AND MENTORING

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### Community Mentoring

- TechTogether Miami, Hackathon Mentor 2022

### Student Research

- Emmanuel Henley, Graduate student researcher (FIU) 2017-2019
- Emmanuel Henley and Andy Regueira, Undergraduate senior project (FIU) "eEVA Data Generation and User Results Analysis Ver 2.0" 2017
- Guido Ruiz, Graduate student researcher (FIU) 2017
- Vishal Chhatwani, Graduate student researcher (FIU) 2016-2017

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- Estefani Arroyo, Undergraduate student researcher (FIU) 2016-2017
- Diana Garcia, Undergraduate student researcher (UM), Boston University 2010

### TEACHING

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- Research Experience for Undergraduates (FIU), NSF Award #1845884 2020-2021  
Presenter, Discussion Leader, and Facilitator: Underrepresentation in CS (2020);  
Qualitative vs. Quantitative Research (2020); Qualitative Interviews (2021)
- Undergraduate Teaching Assistant and Chemistry Workshop Leader 2006  
University of Miami, Department of Chemistry

### MEMBERSHIPS, AFFILIATIONS, AND ROLES

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#### National

- Association for Computing Machinery 2020-Present
- American Society for Engineering Education 2020-Present
- The American Association of Immunologists 2011
- Society for Neuroscience 2010
- Association for Research in Vision and Ophthalmology 2008

#### Florida International University

- Computer Science Graduate Student Association, Communications Specialist 2017-2018
- Upsilon Pi Epsilon, Computer Science Honor Society *since* 2016
- FIU STARS, Vice President and Evaluation Assistant 2015-2016

#### University of Miami

- Golden Key, National Honor Society, Fundraising Director 2005-2007
- Psi Chi, Psychology Honor Society *since* 2005
- Alpha Lambda Delta, National Freshman Honor Society *since* 2004

### PROFESSIONAL SERVICE

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#### Session Moderator

- ASEE Annual Conference and Exposition 2022
- NSF Re-Enter STEM through Emerging Technology (RESET) Conference 2021

#### Peer-Reviewer

- Frontiers in Education 2020-2022
- The Annual Conference on Research in Equity and Sustained Participation  
in Engineering, Computing, and Technology (RESPECT) 2021-2022
- Association for Computing Machinery's Special Interest Group on  
Computer Science Education (SIGCSE) 2021-2022
- IEEE Software Reviewer, SWSI-2020-08-0218 2020

#### Community Events and Presentations

- Co-Presenter at the CSEd Grad July community session on 2021  
"CSEd Institutional Framework and Profiling"  
along with Drs. Maíra Marques Samary, Aman Yadav, Susanne E Hambrusch
- Volunteer Coordinator and Lecturer on "Stem Cell Research" at the 2010  
Miami Science Museum Brain Fair (a public, educational event)