

# Lauren E. Margulieux

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## EDUCATION

### **Ph.D. in Engineering Psychology**, Minor in Education, 2016

Georgia Institute of Technology

Committee: Richard Catrambone (chair), F. Durso, M. Guzdial, W. Newstetter, & W. Rogers

Dissertation: *Using Subgoal Learning and Self-Explanation to Improve Programming Education*

### **M.S. in Engineering Psychology**, 2014

Georgia Institute of Technology

Committee: Richard Catrambone (chair), F. Durso, and M. Guzdial

Thesis: *Subgoal Labeled Instructional Text and Worked Examples in STEM Education*

### **B.A. in Psychology**, 2010

Southwestern University

Summa Cum Laude

Texas A&M University, August 2007 – May 2008

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## PROFESSIONAL EXPERIENCE

Associate Professor of the Learning Sciences, Georgia State University	2022-present
Founding Director, Snap Inc. Center for Computer and Teacher Education, Georgia State University	2020-present
Assistant Professor of Learning Technologies, Georgia State University	2016-2022
Postdoctoral Scholar, Center for Teaching and Learning, Georgia Tech	2016
Graduate Teaching Assistant (Instructor of Record), Georgia Tech	2015-16
Graduate Research Assistant, Center for 21 <sup>st</sup> Century Universities, Georgia Tech	2011-15
Human Factors Intern, Human Interfaces Inc.	2010-11
Peer Academic Mentor, Southwestern University	2009-10

## Awards and Honors

ISTE+ASCD Distinguished Educator Preparation Program Award, 2025

Best Paper Award for Computing Education Research at SIGCSE Technical Symposium, 2025  
*CS Concepts and Conceptual Factors in Integrated Computing Activities in US Schools*

Interdisciplinary Team Award to the Snap Center for Computer and Teacher Education, College of Education and Human Development, Georgia State University, 2025

Outstanding Tenure-Track Faculty Achievement Award, Georgia State University: \$1500, 2024

Lasting Impact Award at International Computing Education Research Conference, 2023  
*Subgoal-Labeled Instructional Material Improves Performance and Transfer in Learning to Develop Mobile Applications*

Best Reviewed Paper Award at International Computing Education Research Conference, 2020  
*What Do We Think We Think We are Doing?: Metacognition and Self-Regulation in Programming*

John Henry “Fool’s” Award at International Computing Education Research Conference, 2019  
*Spatial Encoding Strategy Theory: The Relationship between Spatial Skill and STEM Achievement*

Georgia State University’s College of Ed. and Human Development’s Recognizing Scholarly Excellence program: semester-long sabbatical during 4<sup>th</sup> year, 2019

SIGCSE Technical Symposium Travel Grant: \$850, 2019

Emerald/HETL Education Outstanding Doctoral Research Award: \$1500, 2017

Early Career Workshop at CSCL 2017, Intl Society for the Learning Sciences: \$1000, 2017

Young Scientist Travel Award, Indiana University CogSci Program and NSF: \$1000, 2016

Outstanding Graduate Student, School of Psychology, Georgia Tech: \$500, 2016

Chair’s Award for Best Paper at International Computing Education Research Conference, 2015  
*Subgoals, Context, and Worked Examples in Learning Computing Problem Solving*

Outstanding Graduate Student Instructor Finalist, Georgia Tech, 2015  
Course: Research Methods for Human Subjects Research

Presidential Scholarship, Georgia Tech: \$2750 per semester, 2011-2015

Outstanding Psychology Student, Southwestern University, Spring 2010

Psi Chi Regional Research Award: \$300, Spring 2010  
*Shy to “Fly”: Testing the Effectiveness of Self-presentation Strategies of Shy Individuals*

## SCHOLARSHIP AND PROFESSIONAL DEVELOPMENT

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### Funding

#### Corporate Gifts and Grants

##### Snap Inc. Endowment

- Purpose: Endowment created by Snap Inc. to support CS education in teacher preparation programs by establishing the Snap Inc. Center for Computer and Teacher Education
- Website: <https://education.gsu.edu/snap-inc-center/>
- Position: Founding Director
- Other personnel: Calandra, B. D. (Senior Associate Director), Shapiro, B. R. (Associate Director), & Liao, Y-C. (Associate Director)
- Endowment gift: \$5M plus \$2M in matching funds from Georgia State University Research Foundation

##### Google Partnership

- Title: *AI Innovation Lab*
- Purpose: To offer after-school programs for high school students on AI and machine learning, with instruction from CS teacher candidates, undergrad CS majors, and Google volunteers
- Personnel: Abramson, L. J. (Project Lead), Armistead, L., Vakamudi, R., & Sanseviro, M.
- Project Dates: November 2025-2030
- Budget: \$6,000,000

##### AI Literacy Pipeline to Prosperity Project (AILP3)

- Title: *AI Literacy and Entrepreneurship Summer Camp*
- Purpose: To equip fifty high school students with essential AI literacy skills, entrepreneurial thinking, and real-world application experience
- Position: Assistant Program Director
- Personnel: Bailey, J. (Program Director), Harris, J. & Godbey, J. (Assistant Program Directors)
- Project Dates: March-July 2025
- Budget: \$59,775

##### Google Community Partnership Award

- Title: *Gwinnett County Public Schools AI-Ready Impact*
- Purpose: To measure the impact of Gwinnett County Public School's AI-Ready pilot on student learning, beliefs, and perspectives as well as investigate the beliefs, leadership, and systems that create successful implementation
- Position: Co-Principal Investigator (Georgia State lead)
- Personnel: Sallie Holloway & Ricketts, S. (PIs, Gwinnett County Public Schools), Margulieux, L., Darling, J., & Liao, Y-C. (Co-PIs, Georgia State)
- Project Dates: October 2024-August 2025
- Budget: \$103,600; GSU subaward: \$72,600
- External report available on Gwinnett County Public School's [AI and CS website](#)

#### Google Academic Research Award

- Title: *Leveraging Pre-Kindergarten(Pre-K) Teachers' Routinized Literacy Activities with Integration of AI for Multicultural and Multilingual Teaching*
- Purpose: To study how pre-K teachers can leverage AI in their classrooms to create multicultural and multilingual learning experiences that improve the school readiness of their students
- Position: Co-Principal Investigator
- Other personnel: Zhang, C. (PI, Georgia State)
- Project Dates: January 2025-December 2025
- Budget: \$100,000

#### Google Community Partnership Grant

- Title: *Computing Integration Faculty Fellowship to Bring CS to Teacher Preparation*
- Purpose: To accelerate the Computing Integration Faculty Fellowship program, which works with faculty in Georgia State's College of Education and Human Development to integrate computing into preservice teacher preparation
- Position: Principal Investigator
- Other personnel: Liao, Y-C. (Co-PI, Georgia State)
- Project Dates: August 2022 – July 2025
- Budget: \$161,568

#### Google Tech Education Research Grant

- Title: *How Does Integrated Computing Support Computing Education in Georgia Schools*
- Purpose: To examine how integrated computing activities are used in non-CS classrooms across Georgia and how much CS instruction students receive outside of CS classrooms
- Position: Principal Investigator
- Other personnel: Cox, B. & Williams, L. (Georgia Dept. of Education)
- Project Dates: January – December 2023
- Budget: \$87,100 (including \$14,400 cost sharing from Georgia Dept. of Education)

#### National Grant Awards

##### NSF:EDU – Racial Equity in STEM Education

- Title: *Integrating a Culturally Relevant Digital Curriculum into U.S. Science Dual Language Immersion Programs*
- Purpose: To bridge Indigenous knowledge from Nahua and Totonaca communities in Mexico with Western science, aligned with the Next Generation Science Standards
- Position: Co-Principal Investigator
- Other personnel: Kasun, S. (PI, Georgia State), Mejia, J. A. (PI, University of Texas San Antonio), Christiansen, S. (Co-PI, University of Texas San Antonio)
- Project dates: August 2024 – July 2027
- Budget: \$1,111,845 (Georgia State only, UTSA budget separate)

##### NSF:CISE – Improving Undergraduate STEM Education: Computing in Undergraduate Education (IUSE:CUE)

- Title: *Microcredentials for Integrating Computing Responsibly into Other Domains (MICRO) in Colleges of Education (#2241914)*

- Purpose: To implement Georgia State’s model of CS education in teacher preparation programs at other colleges of education and study the contextual features that affect the adaption of existing resources to applications in new programs
- Position: Principal Investigator
- Other personnel: Liao, Y-C. (Co-PI, Georgia State), Calandra, B. (Co-PI, Georgia State), Karlin, M. (Co-PI, CSU Dominguez Hills)
- Project dates: October 2023 – August 2025
- Budget: \$418,509

#### NSF:EHR – Improving Undergraduate STEM Education (IUSE) Level 2

- Title: *Expanding Subgoal Labels for Imperative Programming to Further Improve Student Learning Outcomes* (#2111578)
- Purpose: To expand the development of subgoal labeled materials to include Python and advanced topics in Java and to support other universities in using these materials
- Position: Senior Personnel
- Other personnel: Morrison, B. B. (PI, University of Nebraska Omaha), Decker, A. (Co-PI, University at Buffalo), Bart, A. C. (Senior Personnel, University of Delaware)
- Project dates: August 2021 – July 2024
- Budget: \$599,941

#### NSF:EHR – Faculty Early Career Development Program (CAREER)

- Title: *Spreading Computational Literacy Equitably via Integration of Computing in Preservice Teacher Prep* (#1941642)
- Purpose: To examine which computing concepts fundamental computational literacy should include and how to teach them across the curriculum
- Position: Principal Investigator
- Project dates: July 2020 – September 2026
- Budget: \$513,873

#### NSF:CISE – Early-concept Grants for Exploratory Research (EAGER)

- Title: *Microcredentials for Integrating Computing Responsibly into Other Domains (MICRO; #2016010)*
- Purpose: To develop self-paced, online courses aligned with microcredentials for teachers to learn and demonstrate competency related to integrated computing
- Position: Co-Principal Investigator
- Other personnel: Calandra, B. (PI, Georgia State), Cox, Bryan (Co-PI, Georgia Dept. of Ed), Abell, O. & Sykora, C. (Consultants, Intl Society for Technology in Education)
- Project dates: June 2020 – May 2022
- Budget: \$299,182

#### \*US Department of Education – Teacher Quality Partnership

- Title: *NURTURE: Network for Urban and Rural Teachers United for Residency Engagement* (U336S190026)
- Purpose: To support teacher residents in rural communities through certification and the first years of teaching
- Position: Senior Personnel
- Other personnel: Benson, G. (PI), Ogletree, S., Patterson, D., and Feinberg, J. (Co-PIs)
- Project dates: October 2019 – September 2024
- Budget: \$7,038,676

\* Recipient of American Educational Research Association's Claudia A. Balach  
School University Partnership Research SIG 2024 Award

NSF:EHR – Improving Undergraduate STEM Education (IUSE) Level 1

- Title: *Developing and Assessing Subgoal Labels for Imperative Programming to Improve Student Learning Outcomes* (#1712231)
- Purpose: To develop and test subgoal labeled instructional materials for an introductory Java programming course
- Position: Co-Principal Investigator
- Other personnel: Morrison, B. B. (PI, University of Nebraska Omaha), Decker, A. (Co-PI, University at Buffalo)
- Project dates: August 2017 – July 2021
- Budget: \$299,927

NSF:CISE – Technical Assistance Workshop for CSforAll:RPP Submission

- Title: *Technical Assistance Workshop on Researcher Practitioner Partnerships for CSforAll:RPP in Atlanta, Georgia* (#1945313)
- Purpose: To host a workshop that supports the development of teams and skills needed to create effective researcher practitioner partnerships in computing education
- Position: Principal Investigator
- Other personnel: Calandra, B. (Co-PI)
- Project dates: October 2019 – June 2021
- Budget: \$94,951

APF COGDOP Graduate Research Scholarship

- Title: *Subgoal-Oriented Instructional Text and Worked Examples in STEM Education*
- Purpose: To test the efficacy of different types of subgoal labeled instructional materials
- Position: Principal Investigator
- Project dates: January 2013 – January 2014
- Budget: \$1000

Internal Grant Awards

Georgia State University, College of Ed. and Human Dev., Technology Infusion Grants

- *Discipline-Inclusive Introduction to Computational Thinking Concepts and Activities*, collaborator: Caroline Sullivan, budget: \$500, Spring 2019
- *Algebra with Bootstrap for the Secondary Mathematics Methods Course*, collaborator: Pier Junor Clarke, budget: \$500, Spring 2019
- *Utilizing Pencil Code to Teach Computational Thinking for the Middle Childhood Science Methods Course*, collaborators: Natalie King and Patrick Enderle, budget: \$500, Spring 2019

## Publications

At end of 2025: h-index = 26, total citations = 2508

### Refereed Journal Articles

Numbering system: J# = Journal article

*Italics indicates student author*

- [J29] **Margulieux, L. E.**, Prather, J., & *Rahimi, M.* (2025). The biological benefits of failure on learning and tools to manage the fallout. *Educational Psychology Review*, 37(33), 1-38. <https://doi.org/10.1007/s10648-025-10013-7>
- [J28] Liao, Y-C., Karlin, M., **Margulieux, L. E.**, & Calandra, B. (2025). Building bridges, breaking barriers: Exploring the dynamics and key factors shaping computer science education pathways in teacher preparation. *Journal of Technology and Teacher Education*, 33(1), 5-35. <https://www.learntechlib.org/primary/d/225047>
- [J27] *Parkinson, J.* & **Margulieux, L. E.** (2025). Improve CS performance by developing spatial skills. *Communications of the ACM*, 68(1), 68-77. <https://doi.org/10.1145/3680409>
- [J26] **Margulieux, L. E.**, Liao, Y-C., *Anderson, E.*, Parker, M. C., & Calandra, B. D. (2024). Intent and extent: Computer science concepts and practices in integrated computing. *ACM's Transactions on Computing Education*, 24(3), 1-23. <https://doi.org/10.1145/3664825>
- [J25] Kasun, G. S., Liao, Y-C., **Margulieux, L. E.**, & *Woodall, M.* (2024). Unexpected outcomes from an AI education course among education faculty: Toward making AI accessible with marginalized youth in urban Mexico. *Frontiers in Education*, 9, 1368604. <https://doi.org/10.3389/feduc.2024.1368604>
- [J24] Brown, N. C. C., Hermans, F. F. J., & **Margulieux, L. E.** (2023). Ten things software developers should learn about learning. *Communications of the ACM*, 67 (January), 78-87. <https://doi.org/10.1145/3584859>
- Video feature: <https://vimeo.com/885743448>
- [J23] **Margulieux, L. E.**, Prather, J., *Rahimi, M.*, & *Uzun, G. C.* (2023). Leverage biology to learn rapidly from mistakes without feeling like a failure. *Computing in Science and Engineering*, 25(2, March/April), 44-49. <https://doi.org/10.1109/MCSE.2023.3297750>
- [J22] **Margulieux, L. E.** (2023). New approach to teaching computer science could broaden the subject's appeal. *The Conversation*. <https://theconversation.com/new-approach-to-teaching-computer-science-could-broaden-the-subjects-appeal-205171>
- [J21] **Margulieux, L. E.**, Parker, M. C., *Uzun, G. C.*, & Cohen, J. D. (2023). Levels of computing concepts used in computing integration activities across disciplines. *Journal of Technology and Teacher Education*, 31(2), 167-202. <https://www.learntechlib.org/primary/p/221815/>
- [J20] **Margulieux, L. E.**, Enderle, P., Junor Clarke, P. A., King, N., Sullivan, C., Zoss, M., & Many, J. (2022). Integrating Computing into Preservice Teacher Preparation Programs across the Core: Language, Mathematics, and Science. *Journal of Computer Science Integration*, 5(1), 1–16. <https://doi.org/10.26716/jcsi.2022.11.15.35>

- [J19] Cox, B., **Margulieux, L. E.**, & Darling-Aduana, J. (2022). Georgia online education option for broadening participation in K-12 computer science. *Policy Futures in Education*. Special Issue: Broadening Participation for All Students: Praxis and Policy towards Equity in 21<sup>st</sup> Computer Science Education. <https://doi.org/10.1177/14782103221082752>
- [J18] Loksa, D., **Margulieux, L. E.**, Becker, B., Craig, M., Denny, P., & Prather, J. (2022). Metacognition and self-regulation in programming education: Theories and exemplars of use. *ACM Transactions on Computing Education*, 22(4), 1-31. <https://doi.org/10.1145/3487050>
- [J17] **Margulieux, L. E.**, & Catrambone, R. (2021). Scaffolding problem solving with learners' own self explanations of subgoals. *Journal of Computing in Higher Education*, 33, 499-523. <https://doi.org/10.1007/s12528-021-09275-1>
- [J16] Enderle, P. J., **Margulieux, L. E.**, & King, N. S. (2021). What's in a wave? Using modeling and computational thinking to enhance students' understanding of waves. *The Science Teacher*, 88(March/April), 54-58.
- [J15] **Margulieux, L. E.**, & Yadav, A. (2021). Middle science computing integration with preservice teachers. *Journal of Computers in Mathematics and Science Teaching*, 40(1), 29-49.
- [J14] Williams, K. Z., **Margulieux, L. E.**, & Lawrence, G. D. (2020). Teaching certificate redesign: Making a flexible preparing future faculty program. *To Improve the Academy*, 39(2). <https://doi.org/10.3998/tia.17063888.0039.209>
- [J13] **Margulieux, L. E.**, Morrison, B. B., Franke, B., & Ramilison, H. (2020). Effect of implementing subgoals in Code.org's Intro to Programming unit in Computer Science Principles. *ACM Transactions on Computing Education*, 20(4), 1-24. <https://doi.org/10.1145/3415594>
- [J12] **Margulieux, L. E.**, Morrison, B. B., & Decker, A. (2020). Reducing dropout and failure rates in introductory programming with subgoal labeled worked examples. *International Journal of STEM Education*, 7(19). 1-16. <https://doi.org/10.1186/s40594-020-00222-7>
- [J11] Morrison, B. B., **Margulieux, L. E.**, & Decker, A. (2020). The curious case of loops. *Computer Science Education*, 30(2), 127-154. <https://doi.org/10.1080/08993408.2019.1707544>
- [J10] Kim, M. K., & **Margulieux, L. E.** (2020). An exploratory study of learner changes during a short-term exposure to hybrid learning. *International Journal of Learning Technology*, 15(1), 66-81.
- \*[J9] **Margulieux, L. E.** (2020). Spatial Encoding Strategy theory: The relationship between spatial skill and STEM achievement. *ACM Inroads*, 11(1), 65-75. <https://doi.org/10.1145/3381891>

\*Reprint of paper awarded John Henry "Fool's" Award at ICER 2019

- [J8] Ketenci, T. A., Calandra, B., **Margulieux, L. E.**, & Cohen, J. (2019). The relationship between learner characteristics and student outcomes in a middle school computing course: An exploratory analysis using structural equation modeling. *Journal of Research on Technology in Education*, 51(1), 63-76. <https://doi.org/10.1080/15391523.2018.1553024>



- [J7] **Margulieux, L. E., Ketenci, T. A., Decker, A.** (2019). Review of measurements used in computing education research and suggestions for increasing standardization. *Computer Science Education*, 29(1), 49-78. <https://doi.org/10.1080/08993408.2018.1562145>
- [J6] **Margulieux, L. E., & Catrambone, R.** (2019). Finding the best types of guidance for constructing self-explanations of subgoals in programming. *Journal of the Learning Sciences*, 28(1), 108-151. <https://doi.org/10.1080/10508406.2018.1491852>
- [J5] **Margulieux, L. E., Catrambone, R., & Schaeffer, L. M.** (2018). Varying effects of subgoal labeled expository text in programming, chemistry, and statistics. *Instructional Science*, 46(5), 707-722. <https://doi.org/10.1007/s11251-018-9451-7>
- [J4] **Margulieux, L. E., McCracken, W. M., & Catrambone, R.** (2016). A taxonomy to define courses that mix face-to-face and online learning. *Educational Research Review*, 19, 104-118. <https://doi.org/10.1016/j.edurev.2016.07.001>
- [J3] **Margulieux, L. E., Chen, D., McDonald, J. D., Bujak, K. R., Gable, T. M., Darling, C. M., Schaeffer, L. M., & Barg-Walkow, L. H.** (2016). Online collaboration applications evaluated by ease of use. *Ergonomics in Design*, 24(2), 21-30. <https://doi.org/10.1177/1064804615611273>
- [J2] **Margulieux, L. E., & Catrambone, R.** (2016). Improving problem solving with subgoal labels in expository text and worked examples. *Learning and Instruction*, 42, 58-71. <https://doi.org/10.1016/j.learninstruc.2015.12.002>
- [J1] **Margulieux, L. E., Catrambone, R., & Guzdial, M.** (2016). Employing subgoals in computer programming education. *Computer Science Education*, 26(1), 44-67. <https://doi.org/10.1080/08993408.2016.1144429>

#### Highly-Competitive Conference Proceedings

P# = Conference proceeding published by ACM and equivalent to a journal article

*Italics indicates student author*

- [P21] **Margulieux, L. E., Rahimi, M., Liao, Y-C., Haddadian, N., Parker, M. C., & Calandra, B.** (2025). Comparisons between and trends among integrated computing activities designed by teachers and researchers. *Proceedings of the 2025 ACM Conference on International Computing Education Research* (pp. 284-297). ACM. <https://doi.org/10.1145/3702652.3744221>
- [P20] *Rahimi, M., Margulieux, L. E., Towell, D., Calver, J., Loksa, D., & Prather, J.* (2025). The impact of students' views of failure on performance in introductory programming courses. *Proceedings of the 2025 Conference on Innovation and Technology in Computer Science Education* (pp. 611-617). ACM. <https://doi.org/10.1145/3724363.3729112>
- \*[P19] *Rahimi, M., Margulieux, L. E., & Anderson, E.* (2025). CS concepts and contextual factors in integrated computing activities in U.S. schools. *Proceedings of the 56<sup>th</sup> SIGCSE Technical Symposium* (pp. 931-937). ACM. <https://doi.org/10.1145/3641554.3701817>

\*Best Paper Award for Computing Education Research

- [P18] *Uzun, G. C., Margulieux, L. E., & Liao, Y-C. (2025). Programming self-efficacy in CS: Adding four areas of validity to the Steinhorst instrument. Proceedings of the 56<sup>th</sup> SIGCSE Technical Symposium* (pp. 213-219). ACM.  
<https://doi.org/10.1145/3641554.3701813>
- [P17] **Margulieux, L. E.**, Prather, J., Reeves, B., Becker, B., *Uzun, G. C.*, Loksa, D., Leinonen, J., & Denny, P. (2024). Self-regulation, self-efficacy, and fear of failure interactions with how novices use LLMs to solve programming problems. *Proceedings of the 2024 Conference on Innovation and Technology in Computer Science Education* (pp. 276-282). ACM. <https://doi.org/10.1145/3649217.3653621>
- [P16] *Salguero, A., Villegas Molina, I., Porter, L., Margulieux, L. E., & Cutts, Q. (2024). Applying CS0/CS1 student success factors and outcomes to Biggs' 3P educational model. Proceedings of the 55<sup>th</sup> SIGCSE Technical Symposium* (pp. 1168-1174). ACM.  
<https://doi.org/10.1145/3626252.3630781>
- [P15] Parker, M. C., Davidson, M. J., Kao, Y. S., **Margulieux, L. E.**, Tidler, Z. R., & Vahrenhold, J. (2023). Toward CS1 content subscales: A mixed-methods analysis of an introductory computing assessment. *Proceedings of the 23<sup>rd</sup> Koli Calling International Conference on Computing Education Research* (13 pages). ACM.  
<https://doi.org/10.1145/3631802.3631828>
- [P14] Yadav, A., Connolly, C., Berges, M., Chytas, C., Franklin, C., Hijón-Neira, R., Macann, V., **Margulieux, L. E.**, Ottenbreit-Leftwich, A., & Warner, J. R. (2022). A review of international models of computer science teacher education. *Proceedings of the 2022 Working Group Reports on Innovation and Technology in Computer Science Education* (pp. 65-93). ACM. <https://doi.org/10.1145/3571785.3574123>.
- [P13] Prather, J., **Margulieux, L. E.**, Whalley, J., Denny, P., Reeves, B. N., Becker, B., Singh, P., *Powell, G.*, & Bosch, N. (2022). Getting by with help from my friends: Group study in introductory programming understood as socially share regulation. *Proceedings of the Eighteenth Annual Conference on International Conference on International Computing Education Research*, Volume 1 (pp. 164-176). ACM.  
<https://doi.org/10.1145/3501385.3543970>
- [P12] **Margulieux, L. E.**, Denny, P., Cunningham, K., *Deutsch, M.*, & Shapiro, B. (2021). When wrong is right: The instructional power of multiple conceptions. *Proceedings of the Seventeenth Annual Conference on International Computing Education Research* (pp. 184-197). ACM. <https://doi.org/10.1145/3446871.3469750>.
- \*[P11] Prather, J., Becker, B., Craig, M., Denny, P., Loksa, D., & **Margulieux, L. E.** (2020). What do we think we think we are doing?: Metacognition and self-regulation in programming. *Proceedings of the Sixteenth Annual Conference on International Computing Education Research* (pp. 2-13). ACM.  
<https://doi.org/10.1145/3372782.3406263>.
- \*Best Reviewed Paper Award
- \*[P10] **Margulieux, L. E.** (2019). Spatial Encoding Strategy theory: The relationship between spatial skill and STEM achievement. *Proceedings of the Fifteenth Annual Conference on International Computing Education Research* (pp. 81-90). ACM.  
<https://doi.org/10.1145/3291279.3339414>

\*John Henry “Fool’s” Award

- [P9] Decker, A., **Margulieux, L. E.**, Morrison, B. B. (2019). Using the SOLO Taxonomy to understand subgoal labels effect on problem solving processes in CS1. *Proceedings of the Fifteenth Annual Conference on International Computing Education Research* (pp. 209-217). ACM. <https://doi.org/10.1145/3291279.3339405>
- [P8] **Margulieux, L. E.**, Morrison, B. B., & Decker, A. (2019). Design and pilot testing of subgoal labeled worked examples for five core concepts in CS1. *Proceedings of the 2019 Conference on Innovation and Technology in Computer Science Education* (pp. 548-553). ACM. <https://doi.org/10.1145/3304221.3319756>
- [P7] Parker, M. C., Solomon, A., Pritchett, B., Illingworth, D., **Margulieux, L. E.**, & Guzdial, M. (2018). Socioeconomic status and computer science achievement: Spatial ability as a mediating variable in a novel model of understanding. *Proceeding of the Fourteenth Annual Conference on International Computing Education Research* (pp. 97-105). ACM. <https://doi.org/10.1145/3230977.3230987>
- [P6] **Margulieux, L. E.**, & Catrambone, R. (2017). Using learners’ self-explanations to guide initial problem solving. *Proceeding of the Thirteenth Annual Conference on International Computing Education Research* (pp. 21-29). ACM. <https://doi.org/10.1145/3105726.3106168>
- [P5] Morrison, B. B., Decker, A., & **Margulieux, L. E.** (2016). Learning loops: A replication study illuminates impact of HS courses. *Proceedings of the Twelfth Annual International Conference on International Computing Education Research* (pp. 221-230). ACM. <https://doi.org/10.1145/2960310.2960330>
- [P4] Morrison, B. B., **Margulieux, L. E.**, Ericson, B., & Guzdial, M. (2016). Subgoals help students solve Parsons problems. In *Proceedings of ACM’s SIG Computer Science Education Technical Symposium* (pp. 42-47). ACM. <https://doi.org/10.1145/2839509.2844617>
- \*[P3] Morrison, B. B., **Margulieux, L. E.**, & Guzdial, M. (2015). Subgoals, context, and worked examples in learning computing problem solving. *Proceedings of the Eleventh Annual International Conference on International Computing Education Research* (pp. 21-29). ACM. <https://doi.org/10.1145/2787622.2787733>

\*Chairs’ Best Paper Award

- [P2] **Margulieux, L. E.** & Catrambone, R. (2014). Improving problem solving performance in computer-based learning environments through subgoal labels. *Proceedings of the First ACM Conference on Learning @ Scale* (pp. 149-150). ACM. <https://doi.org/10.1145/2556325.2567853>
- \*[P1] **Margulieux, L. E.**, Guzdial, M., & Catrambone, R. (2012). Subgoal-labeled instructional material improves performance and transfer in learning to develop mobile applications. *Proceedings of the Ninth Annual International Conference on International Computing Education Research* (pp. 71-78). ACM. <https://doi.org/10.1145/2361276.2361291>

\*Lasting Impact Award

### Edited Books and Special Issues

Zhang, C., **Margulieux, L. E.**, & Quinn, M. (2026). Special Issue: Advancing Childhood Education with Artificial Intelligence: Opportunities, Challenges, and Future Directions. *Journal of Research in Childhood Education*.

**Margulieux, L. E.**, & Morrison, B. B. (Eds.). (2019). Special Issue: Advancing Theory about the Novice Programmer. *Computer Science Education*. 29(2-3), 103-308.

Madden, A., **Margulieux, L. E.**, Goel, A. K., & Kadel, R. S. (Eds.). (2019). *Blended Learning in Practice: A Guide for Practitioners and Researchers*. Cambridge, MA: MIT Press.

### Book Chapters Published in Edited Books

C# = Book chapter

[C9] Zhang, C., **Margulieux, L. E.**, & Haddadian, N. (2026). Integrating Generative Artificial Intelligence (GenAI) for Leveraging Early Literacy Instruction: A High-Leverage Teaching Practice (HLTP) Approach. In L. Cohen (Ed.), *Exploring the Potentials of Artificial Intelligence in Early Childhood*. Routledge.

[C8] **Margulieux, L. E.** (2023). Research Design and Methods for Scholarship of Teaching and Learning in Teacher Education. In C. Connolly & T. Ó. Ceallaigh (Eds.), *Innovating Assessment and Feedback Design in Teacher Education* (pp. 106-127). Routledge.

[C7] **Margulieux, L. E.**, Dorn, B., & Searle, K. (2019). Learning Sciences for Computing Education. In S. Fincher & A. Robins (Eds.), *Handbook of Computing Education Research* (pp. 208-230). Cambridge University Press.

[C6] Robins, A., **Margulieux, L. E.**, & Morrison, B. B. (2019). Cognitive Sciences for Computing Education. In S. Fincher & A. Robins (Eds.), *Handbook of Computing Education Research* (pp. 231-275). Cambridge University Press.

[C5] **Margulieux, L. E.** (2019). Blended Learning in an Upper-Level, Required Course on Research Methodology. In A. Madden, L. E. Margulieux, R. S. Kadel, & A. K. Goel (Eds.), *Blended Learning in Practice: A Guide for Practitioners and Researchers* (pp. 269-288). MIT Press.

[C4] **Margulieux, L. E.**, & Kadel, R. S. (2019). Analyzing Quantitative and Qualitative Data for Blended Learning. In A. Madden, L. E. Margulieux, R. S. Kadel, & A. K. Goel (Eds.), *Blended Learning in Practice: A Guide for Practitioners and Researchers* (pp. 193-212). MIT Press.

[C3] Kadel, R. S., & **Margulieux, L. E.** (2019). Research Methods in Blended Learning. In A. Madden, L. E. Margulieux, R. S. Kadel, & A. K. Goel (Eds.), *Blended Learning in Practice: A Guide for Practitioners and Researchers* (pp. 129-154). MIT Press.

[C2] Schaeffer, L. M., **Margulieux, L. E.**, Chen, D., & Catrambone, R. (2016). Feedback via Educational Technology. In L. Lin & R. Atkinson (Eds.), *Educational Technologies: Challenges, Applications, and Learning Outcomes*. (Education in a Competitive and Globalizing World, pp. 59-72). Nova Science Publishers, Inc.

[C1] Durso, F. T., **Margulieux, L. E.**, & Blickensderfer, E. L. (2014). Human Factors. *Oxford Bibliographies Online: Psychology*. doi:10.1093/obo/9780199828340-0159

## Refereed Conference Proceedings

- Davis, R., **Margulieux, L. E.**, Karlin, M., & Liao, Y-C. (2025). Shared practices in faculty-driven integration of generative AI into teacher education courses. *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 1686-1691). Association for the Advancement of Computing in Education (AACE). <https://www.learntechlib.org/primary/p/225741/>
- Cohen, J. D., **Margulieux, L. E.**, Renken, M., & Jones, W. M. (2020). Conclusions from the validation of a vignette-based instrument to measure maker mindsets. In Gresalfi, M. and Horn, I. S. (Eds.) *The Interdisciplinarity of the Learning Sciences, 14th International Conference of the Learning Sciences (ICLS) 2020 Volume 3* (pp. 1649-1652). International Society of the Learning Sciences.
- Margulieux, L.** & Yadav, A. (2020). Middle Science Computing Integration with Preservice Teachers. In D. Schmidt-Crawford (Ed.) *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 63-72). Association for the Advancement of Computing in Education (AACE).
- Decker, A., **Margulieux, L. E.**, & Morrison, B. B. (2019). Developing subgoal labels for imperative programming to improve student learning outcomes. *Proceedings of the 2019 ASEE Annual Conference and Exposition*.
- Lewis, C., Guzdial, M., **Margulieux, L. E.**, Nelson, G., & Porter, L. (2019). Negotiating varied research goals in computing education research. *Proceedings of the 50<sup>th</sup> ACM Technical Symposium on Computer Science Education* (pp. 500-501). ACM. <https://doi.org/10.1145/3287324.3287329>
- Morrison, B. B., Decker, A., & **Margulieux, L. E.** (2019). Using subgoal labeling in teaching CS1. *Proceedings of the 50<sup>th</sup> ACM Technical Symposium on Computer Science Education* (pp. 1237). ACM. <https://doi.org/10.1145/3287324.3287540>
- Decker, A., Schneider, J., & **Margulieux, L. E.** (2018). How engineering and computing students demonstrate critical thinking during required co-op work experiences. *Proceedings of the 2018 Frontiers in Education Conference*. <https://doi.org/10.1109/FIE.2018.8659164>
- Cohen, J., **Margulieux, L. E.**, Renken, M., Smith, S., & Jones, W. M. (2018). Maker Mindset: Measuring the Effect of Making. In Kay, J. and Luckin, R. (Eds.) *Rethinking Learning in the Digital Age: Making the Learning Science Count, 13<sup>th</sup> International Conference of the Learning Sciences (ICLS) Volume 3* (pp. 1505-1506). International Society of the Learning Sciences.
- Ericson, B., **Margulieux, L. E.**, & Rick, J. (2017). Solving Parsons problems versus fixing and writing code. *Proceedings of 17<sup>th</sup> Koli Calling International Conference on Computing Education Research* (pp. 20-29). ACM. <https://doi.org/10.1145/3141880.3141895>
- Margulieux, L. E.** (2017). Subgoal learning in online STEM instruction. In Smith, B. K., Borge, M., Mercier, E., and Lim, K. Y. (Eds.). *Making a Difference: Prioritizing Equity and Access in CSCL, 12th International Conference on Computer Supported Collaborative Learning (CSCL) 2017 Volume 1*. (pp. 932-933), International Society of the Learning Sciences.

- Margulieux, L. E., & Catrambone, R. (2016).** Using subgoal learning and self-explanation to improve programming education. In A. Papafragou, D. Grodner, D. Mirman, & J.C. Trueswell (Eds.) *Proceedings of the 38<sup>th</sup> Annual Conference of the Cognitive Science Society* (pp. 2009-2014). Cognitive Science Society.
- Schaeffer, L. M., Margulieux, L. E., & Catrambone, R. (2016).* Interaction of instructional materials order and subgoal labels on learning in programming. In A. Papafragou, D. Grodner, D. Mirman, & J.C. Trueswell (Eds.) *Proceedings of the 38<sup>th</sup> Annual Conference of the Cognitive Science Society* (pp. 271-276). Cognitive Science Society.
- Margulieux, L. E., Morrison, B. B., Guzdial, M., & Catrambone, R. (2016).** Training learners to self-explain: Designing instructions and examples to improve problem solving. *Proceedings of Transforming Learning, Empowering Learners: The International Conference of the Learning Sciences (ICLS) 2016*. International Society of the Learning Sciences [online].
- Margulieux, L. E. & Catrambone, R. (2015).** Varying effects of subgoal labeled procedural instructions in STEM learning [Abstract]. *Proceedings of the 37<sup>th</sup> Annual Meeting of the Cognitive Science Society*, 2942.
- Margulieux, L. E., McCracken, W. M., & Catrambone, R. (2015).** Mixing in-class and online learning: Content meta-analysis of outcomes for hybrid, blended, and flipped courses. In O. Lindwall, P. Hakkinen, T. Koschmann, P. Tchounikine, & S. Ludvigsen (Eds.) *Exploring the Material Conditions of Learning: The Computer Supported Collaborative Learning (CSCL) Conference* (pp. 220-227), 2. The International Society of the Learning Sciences.
- Margulieux, L. E. & Catrambone, R., (2014).** Improving programming instruction with subgoal labeled instructional text. In P. Bello, M. Guarini, M. McShane, & B. Scassellati (Eds.) *Proceedings of the 36<sup>th</sup> Annual Conference of the Cognitive Science Society* (pp. 952-957). Cognitive Science Society.
- Margulieux, L. E., Bujak, K. R., McCracken, W. M., & Majerich, D. (2014).** Hybrid, blended, flipped, and inverted: Defining terms in a two-dimensional taxonomy [Online]. *Proceedings of the 12<sup>th</sup> Annual Conference of the Hawaii International Conference on Education* (pp. 2394-2402).
- Margulieux, L. E., Catrambone, R., & Guzdial, M. (2013).** Subgoal labeled worked examples improve K-12 teacher performance in computer programming training. In M. Knauff, M. Pauen, N. Sebanz, & I. Wachsmuth (Eds.) *Proceedings of the 35<sup>th</sup> Annual Conference of the Cognitive Science Society* (pp. 978-983). Cognitive Science Society.
- Desmond, P. A., **Margulieux, L. E.**, English, A. B., Burbey, A. L., & Matthews, G. (2010). Emotional intelligence and driver stress. *Proceedings of the Human Factors and Ergonomics Society*.
- Bollich, K. L., Mathis, S. E., Laas, W. L., Giuliano, T. A., & **Margulieux, L. E. (2010).** Perceived effectiveness of strategies for improving perceptions of shy individuals. *Proceedings of the Association for Psychological Science*.

## Unrefereed Publications and Datasets

- Karlin, M., Liao, Y-C., **Margulieux, L. E.**, & *Haddadian, N.* (2025). Teacher education pathway onramps for standalone and integrated CS: Implications for equity and capacity. Session at *Computer Science Teachers' Association Conference*. Cleveland, OH.
- Margulieux, L. E.**, *Anderson, E.*, & *Rahimi, M.* (2024). Programming and computational thinking concepts and contextual factors in integrated computing activities in U.S. schools [Dataset]. *Dryad*. <https://doi.org/10.5061/dryad.ttdz08m6v>
- Margulieux, L. E.**, Parker, M. C., & *Uzun, G. C.* (2024). Computing integrated activities scored for programming concepts [Dataset]. *Dryad*. <https://doi.org/10.5061/dryad.k0p2ngfgj>
- Margulieux, L. E.**, Liao, Y-C., *Anderson, E.*, Parker, M., & Calandra, B. (2024). Extended computing integrated curricula scored for K-12 CS standards [Dataset]. *Dryad*. <https://doi.org/10.5061/dryad.j6q573nnt>
- Margulieux, L. E.**, Liao, Y-C., Shapiro, B. R., & Calandra, B. (2024). Recommendations for computer science education in colleges of education. *Authorea*. <https://doi.org/10.22541/au.171052957.79200843/v1>
- Rahimi, M.*, **Margulieux, L. E.**, Prather, J., *Cetin, G.*, & *Kimmel, B.* (2023). Benefits of failure on neuroplasticity and tools for persistence. *Proceedings of the 2023 ACM Conference on International Computing Education Research*, Volume 2. <https://doi.org/10.1145/3568812.3603470>
- Morrison, B. B., Decker, A., **Margulieux, L. E.**, Bart, A. C. (2022). Subgoals for CS1 in Python. *Proceedings of the 2022 ACM Conference on International Computing Education Research*, Volume 2 (pp. 44-45). <https://doi.org/10.1145/3501709.3544283>
- Yadav, A., Connolly, C., Berges, M., Chytas, C., Franklin, C., Hijón-Neira, R., Leftwich, A., **Margulieux, L.**, Macann, V., & Warner, J. R. (2022). Models for computer science teacher preparation: Developing teacher knowledge. *Proceedings of the 27th ACM Conference on Innovation and Technology in Computer Science Education (ITiCSE '22)*, 2. 568–569. <https://doi.org/10.1145/3502717.3532166>
- Margulieux, L. E.**, & Morrison, B. B. (2019). Guest editorial on special issue: Advancing theory about the novice programmer. *Computer Science Education*. 29(2-3), 103-105. <https://doi.org/10.1080/08993408.2019.1613091>
- Margulieux, L. E.** (2018). Effects of subgoal labeled expository text differ across programming, statistics, and chemistry. *Annual Meeting of the American Education Research Association*.
- Peek, M. E., Majerich, D. M., **Margulieux, L. E.**, Stephens, A. B., Braga, R. A., & Madden, A. (2015). Teaching college faculty to interconnect chemistry and biochemistry experiments via the “Threading Flavones” project. *Proceedings of the Chemistry Education Research & Practice of the Gordon Research Conference*.
- Margulieux, L. E.** & Catrambone, R. (2014). Subgoal labels in worked examples, but not general text, aid statistics learning [Abstract]. *Abstracts of the Psychonomic Society*, 19, 129.

- Margulieux, L. E. & Catrambone, R.** (2013). Multidimensional scaling for comparing problem solving knowledge to an ideal [Abstract]. *Abstracts of the Psychonomic Society, 18*, 191.
- Margulieux, L. E., Catrambone, R., & Guzdia, M.** (2012). Subgoals improve performance in computer programming construction tasks [CD]. *Proceedings of the EARLI SIG 6&7 Conference* (pp. 60-62).
- Margulieux, L. E., Giuliano, T. A., Bollich, K. L., Mathis, S. E., & Laas, W. L.** (2010). Introverted but not shy: A new perspective on the measurement of introversion. *Proceedings of the Southwestern Psychological Association*.
- Mathis, S. E., Laas, W. L., Bollich, K. L., Giuliano, T. A., & **Margulieux, L. E.** (2010). Shy to “fly”: Testing the effectiveness of self-presentation strategies of shy individuals. *Proceedings of the Southwestern Psychological Association*.

## Presentations

### Invited Talks

- Margulieux, L. E. (2025). *Computing and AI Applications in Education that Teachers Value*. Presentation at the Sources of Urban Educational Excellence Conference hosted by the Alonzo A. Crim Center for Urban Educational Excellence. Atlanta, GA.
- Margulieux, L. E. (2025). *Gwinnett County Public Schools AI-Ready Pilot*. Presentation at the Seckinger AI Showcase hosted by Gwinnett County Public Schools. Buford, GA.
- Margulieux, L. E. (2025). *Highlights of Google.org Project Outcomes*. Presentation at the Knowledge, Skills, and Learning Group On-Site Meeting hosted by Google.org. Atlanta, GA.
- Margulieux, L. E. (2025). *AI Foundations and Training Your Own Models*. Presentation at the AI Literacy and Entrepreneurship Summer Camp, Atlanta, GA.
- Margulieux, L. E. (2025). *Learning from Failure: The Biological Case for Embracing Mistakes*. Psychology in the Classroom [Podcast].  
<https://changingstatesofmind.libsyn.com/website/learning-from-failure-the-biological-case-for-embracing-mistakes>
- Margulieux, L. E. (2025). *To Tech and Beyond: An Alum Story*. Presentation at the Recruitment Weekend of Psychology at the Georgia Institute of Technology, Atlanta, GA.
- Margulieux, L. E. (2024). *Computing Education Research Methods and Design*. Presentation to the Doctoral Consortium of the SIGCSE Virtual Conference (online).
- Margulieux, L. E. (2024). *CS Concepts and Contextual Factors in Integrated Computing Activities in U.S. Schools*. Presentation to the Georgia Computer Science Advisory Council hosted by the Georgia Department of Education. Atlanta, GA (online).
- Margulieux, L. E. (2023). *Computing Across the Curriculum: CS Knowledge and Skills that Everyone Values*. Keynote address to the International Conference on Informatics in Schools. Lausanne, Switzerland. <https://www.youtube.com/watch?v=djwvA-YFEZY>



- Margulieux, L. E. (2023). *Computing education research methods and design*. Presentation to the Media, Digital Technology, and Informatics group hosted by Haute École Pédagogique Vaud. Lausanne, Switzerland.
- Margulieux, L. E. (2023). *Computing education research methods and design*. Presentation to the Computer Science Education Research group hosted by Vrije Universiteit. Amsterdam, Netherlands.
- Margulieux, L. E. (2023). *Building theory in computing education*. Presentation to the Computer Science Teacher program hosted by Vrije Universiteit. Amsterdam, Netherlands.
- Margulieux, L. E. (2023). *Things software developers should learn about learning*. Presentation at the It Will Never Work in Theory event, Toronto, Canada (online).  
<https://neverworkintheory.org/> and <https://www.youtube.com/watch?v=XGF8ljfL4ZA>
- Margulieux, L. E. (2023). *Learning sciences and computing education research: Theories, methods, and designs*. Presentation hosted by University of California San Diego, San Diego, CA (online).
- Margulieux, L. E. (2022). *Building theory in computing education*. Presentation hosted by the Kenneth C. Griffin Computer Science for All Initiative at University of Florida. Gainesville, FL.
- Margulieux, L. E. (2022). *The causal connection between spatial skills and STEM skills*. Presentation and workshop at the Spatial Skills Summit, hosted by the Centre for Computer Science Education, University of Glasgow, Glasgow, Scotland (online).
- Margulieux, L. E. (2022). *Computing education research methods and design*. Presentation to the Computers + Education Research Seminar hosted by University of Illinois at Urbana-Champaign. Champaign, IL (online).
- Margulieux, L. E. (2022). *Engineering education research methods and design*. Presentation and workshop hosted by The Ohio State University's Engineering Education Department. Columbus, OH (online).
- Margulieux, L. E. (2022). *Building theory in STEM education: Multiple conceptions theory*. Presentation at the Scottish Informatics & Computer Science Alliance (SICSA) Distinguished Speaker Seminar, Centre for Computer Science Education, University of Glasgow, Glasgow, Scotland.
- Margulieux, L. E. (2022). *Computing education research methods and design*. Presentation and workshop at the Scottish Informatics & Computer Science Alliance (SICSA) Distinguished Speaker Seminar, Centre for Computer Science Education, University of Glasgow, Glasgow, Scotland.
- Margulieux, L. E. (2022). *Building theory in STEM education*. Presentation at the GVI Brown Bag Series, Georgia Institute of Technology, Atlanta, GA (online).
- Margulieux, L. E. (2021). *Building theory in computing education*. Presentation hosted by Michigan State University's Educational Psychology and Educational Technology program. East Lansing, MI.
- Margulieux, L. E. (2021). *Building theory in STEM education*. Presentation to University of Michigan's Cognitive Science Seminar. Ann Arbor, MI.

- Margulieux, L. E. (2021). *Building theory in computing education*. Presentation to the Brown University Computing Education Group. Providence, RI (online).
- Margulieux, L. E. (2021). *Learning sciences and computing education research: Theory and research design*. Presentation to the Brown University Computing Education Group. Providence, RI (online).
- Margulieux, L. E. (2020). *Learning sciences and computing education research: Theory and research design*. Keynote address to the CSEdGrad Conference (online). Recording available at <https://www.csedgrad.org/conference>
- Margulieux, L. E. (2020). *Online and hybrid instruction for computer science classrooms*. Presentation to the Raspberry Pi Foundation Research Symposium. London, UK (online). Recording available at <https://www.raspberrypi.org/computing-education-research-online-seminars/#online-and-hybrid-instruction-for-computer-science-classrooms>
- Margulieux, L. E., & Goel, A. (2019). *Blended learning in practice*. Presentation to the Provost Teaching and Learning Fellows, Center for Teaching and Learning, Georgia Institute of Technology, Atlanta, GA.
- Margulieux, L. E. (2019). *Mixing face-to-face and online learning: Instructional methods that affect learning*. Presentation to the Cognitive Science Seminar Series, Psychology Department, Georgia State University, Atlanta, GA.
- Margulieux, L. E. (2018). *Helping computer science students, especially online learners, become better problem solvers*. Presentation at the GVI Brown Bag Series, Georgia Institute of Technology, Atlanta, GA.
- Margulieux, L. E. (2017). *Mixing face-to-face and online learning: Instructional methods that affect learning*. Presentation to the College of Information Science and Technology, University of Nebraska Omaha, Omaha, NE.
- Margulieux, L. E. (2014). *Mixing face-to-face and online learning: Instructional methods that affect learning*. Presentation at the C21U Seminar Series, Atlanta, GA. <https://www.youtube.com/watch?v=fd0o96s3Utc>
- Margulieux, L. E. (2013). *Hybrid, blended, flipped, and inverted classrooms: What do they mean and why do they matter?* Presentation at the GVI Brown Bag Series, Georgia Institute of Technology, Atlanta, GA.

### Workshops and Panels

- Margulieux, L. E. (2025). *AI Literacy Professional Development Session*. Workshop for the Faculty Fellows Program hosted by the Snap Inc. Center for Computer and Teacher Education (online). <https://youtu.be/7NceVQJQCiu>
- Margulieux, L. E. (2025). *Teaching with AI*. Workshop at the Innovate IT Conference hosted by Fulton Innovation Academy, Alpharetta, GA.
- Bailey, J. (moderator), Flowers, C., Gerl, M., Margulieux, L. E., Snead, D., Thurman, J. (2025). *AI Careers and the Future of Work*. Panel at the AI Literacy and Entrepreneurship Summer Camp, Atlanta, GA.

- Margulieux, L. E., & Mousavi, N. (2025). *AI in Education*. Panel for the STATE to State Event Series (Georgia State Alumni) hosted by the Georgia State University Research Foundation, Washington, DC.
- Rosato, J. (moderator), Schafer, B., Ko, A., Margulieux, L. E., Westerlund, J., Odom-Bartel, B., & Feldhausen, R. (2025). *CS Teacher Prep Community Flash Talks*. Panel at the SIGCSE Technical Symposium hosted by Google, Pittsburg, PA.
- Rosato, J. (moderator), Karlin, M., Margulieux, L. E., & Ni, L. (2025). *Models of CS Programs in Schools of Education*. Panel at the PrepareCS meeting (online).
- Margulieux, L. E. (2024). *Tech Tuesdays Session on Artificial Intelligence*. Workshop for the GSU College of Education and Human Development Staff Council, Atlanta, GA.
- Margulieux, L. E. (2024). *AI Literacy and Applications for Educators*. Workshop for the GSU College of Education and Human Development, Atlanta, GA.
- Shugart Walker, A. (moderator), Cox, B., & Margulieux, L. E. (2023). *Computer Science Education for Social Impact*. Panel at the off-site meeting for Google's Education for Social Impact Outreach team, Atlanta, GA.
- Margulieux, L. E. (2023). *Computer Science for Teaching Secondary Math*. Workshop at the Georgia MathCON hosted by Georgia Department of Education, Atlanta, GA.
- Negron, A. (moderator), Culp, K., Dovi, B., Margulieux, L. E., Sherwood, H., & Tofel-Grehl, C. (2023). *Building Teacher Capacity to Support Interdisciplinary Computational Thinking*. Panel at the DRK-12 PI meeting hosted by NSF, Crystal City, VA.
- McCulloch, C. (moderator), Lombardi, D., & Margulieux, L. E. (2023). *Developing DRK-12 Proposals*. Panel for the CADRE Fellows program hosted by NSF (online).
- DeLyser, L. A. (moderator), Barrett, J., Margulieux, L. E., Mehta, S., & Minaiy, M. (2023). *CSforEd: CS in Schools of Education Models and Approaches*. Panel presented by CSforALL (online).
- Margulieux, L. E. (moderator), Enderle, P. J., Jessup, N. A., Kasun, G. S., & Zhang, C. (2023). *Non-CS Education Faculty Perspectives on Integrated Computing*. Panel at the CS Education in Preservice Teacher Preparation Programs invitation-only workshop funded by National Science Foundation, Atlanta, GA.
- Margulieux, L. E. (2023). *Applying for an NSF CAREER Award*. Presentation for the College of Education and Human Development, Georgia State University, Atlanta, GA.
- DeLyser, L. A. (moderator), Camos, S., & Margulieux, L. E., (2022). *All Teachers Learn CS: Pre-Service Education Models*. Panel at CSEdCon hosted by Code.org, Fort Lauderdale, FL.
- DeLyser, L. A. (moderator), Israel, M., Karlin, M., Margulieux, L. E., Villa, E. (2022). *CSforEd: Schools of Education Implementing Computer Science Education*. Panel presented by CSforALL (online).
- Paul, B. (moderator), Margulieux, L. E., & Pandya, J. (2022). *Investing in our future: 1000x impact*. Panel at the DEI Innovation Summit hosted by Snap Inc. (online).  
<https://youtu.be/FNnlPFiKbxY>

- Pinder, N., Sykora, C., Margulieux, L. E., & Cox, B. (2022). *Digital Problem-Solving: Integrating Computational Thinking Across the Curriculum*. Panel at the International Society for Technology in Education Conference. New Orleans, LA.
- Sykora, C., Pinder, N., Margulieux, L. E., & Cox, B. (2022). *Bringing Computational Thinking to More Content Areas by Inviting Curriculum Leaders to the Conversation*. Panel at the International Society for Technology in Education Conference. New Orleans, LA.
- Henson, C. (moderator), Aguda, A., Margulieux, L. E., & Vo, T. (2022). *Women's Leadership in STEM*. Panel hosted by the Georgia State Women's Philanthropy Network and Alumni Association. Atlanta, GA. <https://giving.gsu.edu/wpn-events/>
- Margulieux, L. E. (2022). *Drawing with Geometry: Creative and Technical Skills in Computing Integration Activities*. Workshop at the Academy for Future Teachers, Atlanta, GA.
- Margulieux, L. E. (2022). *Integration of Computing Education to Support Learning Objectives in English, Math, and Science*. Workshop at the CS4GA CS Summit: Computing as a Fundamental Literacy, Atlanta, GA (online).
- Margulieux, L. E. (moderator), Beck, A. D., Caldwell, J., & Leftwich, A. (2022). *Integration of Computing Education*. Panel at the CS4GA CS Summit: Computing as a Fundamental Literacy, Atlanta, GA (online).
- Iyer, S., Gozem, S., Margulieux, L. E., Ouellet, M., & Skums, P. (2021). *NSF CAREER Awards: Tips and Advice for Proposal Preparation*. Panel hosted by Georgia State University's Office of University Research Services and Administration. Atlanta, GA (online).
- Sykora, C., Pinder, N., Margulieux, L. E., Calandra, B., & Cox, B. (2021). *Computational Thinking Competencies and Microcredentials in Preservice*. Panel at the International Society for Technology in Education Conference (online).
- Margulieux, L. E. (2021). *Drawing with Geometry: Creative and Technical Skills in Computing Integration Activities*. Workshop at the Academy for Future Teachers, Atlanta, GA (online).
- Diaz, L. (moderator), Carpenter-Powell, R., England, H., Fluellen, M., & Margulieux, L. E. (2021). *GA CS Educators Speak Up and Speak Out about CS Ed*. Panel at the CS4GA CS Summit: Beyond Access, Atlanta, GA (online).
- Chen, D-W., & Margulieux, L. E. (2021). *HFES Getting a Job*. Panel at Human Factors and Ergonomics Society meeting, Atlanta, GA (online).
- Diaz, L. (moderator), Margulieux, L. E., & Payton, J. (2020). *Broadening Participation in Computing and Teacher Credentialing: An Interview with Jamie Payton and Lauren Margulieux*. Panel at CSTA and Constellations Virtual Computer Science PD Summit, Atlanta, GA (online).
- Margulieux, L. E. (2020). *Activities that Integrate Computing to Solve Problems in Other Disciplines*. Presentation to the CSTA and Constellations Virtual Computer Science PD Summit, Atlanta, GA (online).
- Shapiro, R. B., Margulieux, L. E., Holbert, N., Searle, K., Tissenbaum, M., & DiSalvo, B. (2020). *Expanding the Field: How the Learning Sciences Might Further Computing*

- Education Research*. Workshop at International Conference of the Learning Sciences, Nashville, TN (online).
- Lewis, C. M., Margulieux, L. E., et al. (2020). *The Cambridge Handbook of Computing Education Research Summarized in 75 Minutes*. Panel at the 51<sup>st</sup> ACM Technical Symposium on Computer Science Education, Portland, OR (online). Recording available at <https://www.youtube.com/watch?v=vcMFNTge2yQ&t=12s>
- Decker, A., Morrison, B. B., & Margulieux, L. E. (2020). *Using Subgoal Labeling in Teaching Introductory Programming*. Workshop at Consortium for Computing Sciences in Colleges – Northeastern Conference, Buffalo, NY.
- DeLyser, L. A., Baskin, J., Childs, J., & Margulieux, L. E., (2019). *Finding a Home for Computer Science in Colleges of Education*. Panel at the CSforAll Summit, Salt Lake City, UT.
- Margulieux, L. E. (2019). *Computational Thinking and Computing Integration*. Workshop for the GTRI Explorers' Guild, Atlanta, GA.
- Margulieux, L. E., Kadel, R., & Goel, A. (2019). *Blended Learning in Practice*. Panel hosted by the Center for 21<sup>st</sup> Century Universities, Georgia Institute of Technology, Atlanta, GA.
- Morrison, B. B., Decker, A., & Margulieux, L. E. (2019). *Using Subgoal Labeling in Teaching CSI*. Workshop at 50<sup>th</sup> ACM Technical Symposium on Computer Science Education, Minneapolis, MN.
- Cox, B., Margulieux, L. E., Haynes, M., & Hoptroff, S. (2018). *A More Holistic Approach to Computer Science*. Panel at the Future Workforce Conference hosted by honorCode, Atlanta, GA.

#### Conference Presentations as Presenting Author

- Margulieux, L. E., Rahimi, M., Liao, Y-C., Haddadian, N., Parker, M. C., & Calandra, B. (2025, August). *Comparisons between and trends among integrated computing activities designed by teachers and researchers*. Paper presented at the 2025 International Computing Education Research Conference. Charlottesville, VA.
- Margulieux, L. E., Liao, Y-C., Anderson, E., Parker, M. C., & Calandra, B. D. (2025, February). *Intent and extent: Computer science concepts and practices in integrated computing*. Paper presented at the 56<sup>th</sup> SIGCSE Technical Symposium. Pittsburgh, PA.
- Rahimi, M., Margulieux, L. E., Prather, J., Uzun, G. C., & Kimmel, B. (2023, August). *Benefits of failure on neuroplasticity and tools for persistence*. Poster presented at the Nineteenth Annual Conference on International Computing Education Research. Chicago, IL.
- Prather, J., Margulieux, L. E., Whalley, J., Denny, P., Reeves, B. N., Becker, B., Singh, P., Powell, G., & Bosch, N. (2022, August). *Getting by with help from my friends: Group study in introductory programming understood as socially share regulation*. Paper presented at the Eighteenth Annual Conference on International Computing Education Research. Lugano, Switzerland.
- Margulieux, L. E., Denny, P., Cunningham, K., Deutsch, M., & Shapiro, B. (2021, August). *When wrong is right: The instructional power of multiple conceptions*. Paper presented at

- the Seventeenth Annual Conference on International Computing Education Research. Charleston, SC. (online due to COVID-19). <https://youtu.be/a-EPI0LQMQ8>
- Prather, J., Becker, B., Craig, M., Denny, P., Loksa, D., & Margulieux, L. E. (2020, August). *What do we think we think we are doing?: Metacognition and self-regulation in programming*. Paper presented at the Sixteenth Annual Conference on International Computing Education Research. Dunedin, New Zealand (online). <https://youtu.be/5jL4n0QH8qE>
- Margulieux, L. E., & Yadav, A. (2020, April). *Middle science computing integration with preservice teachers*. Paper presented at the Society for Information Technology and Teacher Education 2020 Conference. New Orleans, LA (online).
- Margulieux, L. E. (2019, August). *Spatial Encoding Strategy theory: The relationship between spatial skill and STEM achievement*. Paper presented at the Fifteenth Annual International Conference on International Computing Education Research. Toronto, Canada.
- Margulieux, L. E., Decker, A., & Morrison, B. B. (2019, April). *Subgoal labels effect on problem solving processes in CS1*. Poster presented at the Computer Science + Learning Sciences Symposium at Northwestern University. Evanston, IL.
- Lewis, C., Guzdial, M., Margulieux, L. E., Nelson, G., & Porter, L. (2019, February). *Negotiating varied research goals in computing education research*. Panel presented at the 50<sup>th</sup> SIGCSE Technical Symposium. Minneapolis, MN.
- Morrison, B. B., Decker, A., & Margulieux, L. E. (2019, February). *Using subgoal labeling in teaching CS1*. Workshop presented at the 50<sup>th</sup> SIGCSE Technical Symposium. Minneapolis, MN.
- Cohen, J., Margulieux, L. E., Renken, M., Smith, S., & Jones, W. M. (2018, June). *Maker Mindset: Measuring the Effect of Making*. Poster presented at International Conference of the Learning Sciences. London, UK.
- Margulieux, L. E. (2018, April). *Effects of subgoal labeled expository text differ across STEM domains*. Paper presented at the Annual Meeting of the American Education Research Association. New York, NY.
- Margulieux, L. E., & Catrambone, R. (2017, August). *Using learners' self-explanations to guide initial problem solving*. Paper presented at the Thirteenth Annual International Conference on International Computing Education Research. Tacoma, WA.
- Margulieux, L. E., & Catrambone, R. (2016, August). *Using subgoal learning and self-explanation to improve programming education*. Paper presented at the 38th Annual Conference of the Cognitive Science Society. Philadelphia, PA.
- Schaeffer, L. M., Margulieux, L. E., & Catrambone, R. (2016, August). *Interaction of instructional materials order and subgoal labels on learning in programming*. Poster presented at the 38<sup>th</sup> Annual Conference of the Cognitive Science Society. Philadelphia, PA.
- Margulieux, L. E., Morrison, B. B., Guzdial, M., & Catrambone, R. (2016, June). *Training learners to self-explain: Designing instructions and examples to improve problem*

- solving*. Paper presented at the International Conference of the Learning Sciences. Singapore.
- Margulieux, L. E. & Catrambone, R. (2015, July). *Varying effects of subgoal labeled procedural instructions in STEM learning*. Poster presented at the 37<sup>th</sup> Annual Meeting of the Cognitive Science Society. Pasadena, CA.
- Margulieux, L. E., McCracken, W. M., & Catrambone, R. (2015, June). *Mixing in-class and online learning: Content meta-analysis of outcomes for hybrid, blended, and flipped courses*. Paper presented at the 11<sup>th</sup> International Conference on Computer Supported Collaborative Learning. Gothenburg, Sweden.
- Margulieux, L. E. & Catrambone, R. (2014, November). *Subgoal labels in worked examples, but not general text, aid statistics learning*. Poster presented at the 55th Annual Meeting of the Psychonomic Society. Long Beach, CA.
- Margulieux, L. E. & Catrambone, R. (2014, March). *Improving problem solving performance in computer-based learning environments through subgoal labels*. Poster presented at the 1<sup>st</sup> ACM Conference on Learning @ Scale. Atlanta, GA.
- Margulieux, L. E. & Catrambone, R. (2013, November). *Multidimensional scaling for comparing problem solving knowledge to an ideal*. Poster presented at the 54th Annual Meeting of the Psychonomic Society. Toronto, Canada.
- Margulieux, L. E., Catrambone, R., & Guzdial M. (2013, August). *Subgoal labeled worked examples improve K-12 teacher performance in computer programming training*. Paper presented at the 35th Annual Conference of the Cognitive Science Society. Berlin, Germany.
- Margulieux, L. E., & Catrambone R. (2013, June). *Teaching subgoals to improve problem solving in engineering*. Poster presented the 2013 ASEE Annual Conference and Exposition. Atlanta, GA.
- Margulieux, L. E., Catrambone, R., & Guzdial, M. (2012, September). *Subgoals improve performance in computer programming construction tasks*. Poster presented at the meeting of European Association for Research on Learning and Instruction SIG Learning and Instruction with Computers. Bari, Italy.
- Margulieux, L. E., Giuliano, T. A., Bollich, K. L., Mathis, S. E., & Laas, W. L. (2010, April). *Introverted but not shy: A new perspective on the measurement of introversion*. Poster presented at the meeting of Southwestern Psychological Association. Dallas, TX.

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## TEACHING AND ADVISING

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### Teaching

#### Courses Taught

Computational Thinking and Human-Computer Interaction, LT 7501, Georgia State

Digital and Information Literacy, LT 7500, Georgia State

Theoretical and Cognitive Foundations of the Learning Sciences, LT 8100, Georgia State

Doctoral Research Seminar, LT 9850, Georgia State



Computer Skills for the Information Age, LT 2010, Georgia State

Critique of Education Research, LT 9900, Georgia State

Instructional Design, LT 7100, Georgia State

Engineering Psychology, PSY 2014, Georgia Tech

\*Research Methods, PSY 2015, Georgia Tech

\*Nominated for Outstanding Graduate Student Instructor

Introduction to Psychology, PSY 1011 (co-instructor), Georgia Tech

### Courses Created

LT 8100 Theoretical and Cognitive Foundations of the Learning Sciences

LT 4010 Computing and Human-Computer Interaction

\*\*LT 7500 Digital and Information Literacy

\*\*LT 7501 Computational Thinking and Human-Computer Interaction

\*\*LT 7502 Computer Science Instructional Methods

\*\*LT 7503 Computer Science Concepts for Teachers

\*\*Comprise the Computer Science Teacher Endorsement

### Textbook

Calandra, B. D., & **Margulieux, L. E.** (2020). *Digital Skills for the Knowledge Economy, 4<sup>th</sup> edition*. Dubuque, IA: Kendall Hunt.

Calandra, B. D., & **Margulieux, L. E.** (2017). *Digital Skills for the Knowledge Economy, 3<sup>rd</sup> edition*. Dubuque, IA: Kendall Hunt.

## **Advising**

### Doctoral Committees

\* Committee Chair

#### *Completed*

**Sierra Gilliam**, Learning Technologies, Dissertation passed November 2025

Visualizing Spatial Pedagogies in a Maker-Based Classroom: An Interaction Geography Perspective

\***Gozde Cetin Uzun**, Learning Technologies, Dissertation passed April 2024

Revisiting Self-Efficacy in CS: A Replication Study

**Michael Maxwell**, Learning Technologies, Dissertation passed March 2024

The Effects of a Gamified Flipped Classroom on First-Generation Low Income Student Motivation and Achievement in a Georgia High School Mathematics Class

\***Bryan Cox**, Learning Technologies, Dissertation passed July 2023

Building Computer Science Teaching Capacity with Integrated Computing

**Lauren Coleman**, Early Childhood and Elementary Ed., Dissertation passed June 2023

URLiteracy: Analyzing the K-2 Georgia Standards of Excellence in Computer Science and English Language Arts



**Paulina Haduong**, Harvard University (Cambridge, Massachusetts), Dissertation passed April 2023, Chair: Karen Brennan  
Learning Together: Three Studies in Elementary Computing Education

**Lance Armistead**, Learning Technologies, Dissertation passed April 2023  
Examining the Influence of Context in Technological Pedagogical Content Knowledge Development in Training for Teaching Online

**Matthew Pitcairn**, Rhodes University (Makhanda, South Africa), Examination passed April 2023, Chair: Yusuf Motara  
Computer Science Education and Legitimation Code Theory: An Investigation into Quality Teaching

**Charles Hampton**, Learning Technologies, Dissertation passed April 2022  
Examining Workplace Informal Learning, Years of Professional Experience, and Occupational Self-Efficacy among University ICT Workers

**Crystal Bundrage**, Learning Technologies, Prospectus passed November 2021

**Tia Forbes**, Learning Technologies, Comprehensive exam passed May 2021

**Aaron Rafter**, Learning Technologies, Dissertation passed April 2021  
Examining the Use of Spreadsheets in a Highschool Statistics Course as it Relates to Participant Knowledge and Attitudes

**Rodrigo Duran**, Aalto University (Helsinki, Finland), Pre-examination passed May 2020, Chair: Lauri Malmi  
Cognitive Complexity of Comprehending Computer Programs

**\*Reeny Madathany**, Learning Technologies, Comprehensive exam passed April 2020

**Julia Huprich**, Learning Technologies, Dissertation passed March 2020  
Competencies for Customer Education Professionals in Software-As-A-Service Organizations: A Multi-Phase Analysis

**Eric Sembrat**, Learning Technologies, Dissertation passed February 2020  
A Review and Analysis of Process at the Nexus of Instructional and Software Design

**\*Mary “Dorinda” Paige**, Learning Technologies, Comprehensive exam passed Dec. 2018

**Solomon Betanga**, Mathematics Education, Dissertation passed November 2018  
The effects of mathematical modeling instruction on precalculus students’ performance and attitudes toward rational functions

**Ryan Cheek**, Learning Technologies, Dissertation passed October 2018  
An examination of pre-major health student’s readiness for interprofessional education at a technical college

**Jamie Bernhardt**, Learning Technologies, Comprehensive exam passed July 2018

**Aysegul Gok**, Learning Technologies, Dissertation passed July 2018  
Examining game-like design elements and student engagement in an online asynchronous course for undergraduate university students

**\*Julian Allen**, Learning Technologies, Dissertation passed April 2018  
Faculty approaches to active learning: Barriers, affordances, and adoption

**Merrin Oliver**, Educational Psychology, Dissertation passed April 2017  
Investigating individual differences in the conceptual change of biology misconceptions using computer-based explanation activities

### *In Progress*

\***Kazeem Abioye**, Learning Technologies, Coursework started Spring 2026

\***Nooshin Haddadian**, Learning Technologies, Coursework started Fall 2024

\***Masoumeh “Marya” Rahimi**, Learning Technologies, Comprehensive exam passed August 2025

### Mentoring

<b>Doctoral Advisor</b> , 3 current students, 3 PhD graduates	2016 – present
<b>Mentor</b> , Doctoral Consortium, SIGCSE Virtual Conference	2024
<b>Mentor</b> , Independent Research Project, Finn Murphy	2024
<b>Co-chair</b> , Works in Progress Workshop, ICER Conference	2022 & 2023
<b>Co-chair</b> , Doctoral Consortium, ICER Conference	2020 & 2021
<b>Mentor</b> , Doctoral Consortium, ICER Conference	2019
<b>Undergrad Research Assistant Manager</b> , PSET Lab, Georgia Tech	2012-16
<b>Undergraduate Senior Thesis Advisor</b> , Georgia Tech	2013-14
<b>Grand Challenges Group Facilitator</b> , Georgia Tech	2013-14
<b>Peer Academic Mentor</b> , Content Writer, Southwestern University	2009-10

## **SERVICE**

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### **National and Professional Community**

<b>Associate Editor</b> , <i>Computer Science Education</i> journal	2022-present
<b>Advisory Board Member</b> , State of CS Teacher Education and Licensure Project leaders: Institute for Advancing Computing Education and Northern Lights Collaborative for Computing Education	2025-26
<b>Senior Program Committee Member</b> , ICER Conference	2020-23 2025-27
<b>Guest Editor</b> , Special Issue on Advancing Childhood Education with Artificial Intelligence, <i>Journal of Research in Childhood Education</i>	2024-25
<b>Paper Award Committee</b> , ICER Conference	2021 & 2025
<b>Senior Program Committee Member</b> , Koli Calling Conference	2025
<b>Advisory Board Member</b> , <i>Spatial Skill Training in Scottish Primary Schools</i> Project leaders: Quintin Cutts and Jack Parkinson (University of Glasgow)	2022-24
<b>Mentor</b> , Doctoral Consortium, SIGCSE Virtual Conference	2024
<b>Lead Organizer and Host</b> , CS Education in Preservice Programs Workshop	2023

<b>Co-chair</b> , Works in Progress Workshop, ICER Conference	2022 & 2023
<b>ITiCSE Working Group Member</b> , Models for Computer Science Teacher Preparation: Developing Teacher Knowledge	2022
<b>Co-chair</b> , Doctoral Consortium, ICER Conference	2020 & 2021
<b>CSTA Working Group Member</b> , Guidance for Schools of Education <a href="https://csteachers.org/page/guidance-for-schools-of-education">https://csteachers.org/page/guidance-for-schools-of-education</a>	2020
<b>Guest Editor</b> , Special Issue on Advancing Theory about the Novice Programmer, <i>Computer Science Education</i>	2018-19
<b>Mentor</b> , Doctoral Consortium, ICER Conference	2019
<b>Advisory Board Member</b> , <i>Acquainting Metro Atlanta Youth with STEM</i> National Science Foundation, Innovative Technology Experiences for Students and Teachers (ITEST) program, PI: Brendan Calandra	2017-18
<b>Invitation-only National Meetings</b>	
Level Up Workshop for Broadening Participation in Undergraduate Computing, sponsored by NSF and Computing Research Association	2023
Convening on Excellence and Equity in Tech held by the STEMM Opportunity Alliance in the White House Office of Science and Technology Policy and hosted by Snap Inc.	2023
Culturally Relevant Integration of CS and Mathematics Symposium, sponsored by NSF	2023
CS Education in Preservice Teacher Programs Workshop, lead organizer, sponsored by NSF	2023
Piecing Together the Next 15 Years of Computing Education Research, sponsored by NSF, <a href="https://cerfutureworkshop.wordpress.com/">https://cerfutureworkshop.wordpress.com/</a>	2020-22
CSforAll Knowledge Forum, sponsored by CSforAll	2018
Finding a Home for Computing in Schools of Ed, sponsored by CSforAll	2017-18
<b>Reviewer</b>	
National Science Foundation Review Panels (Grant)	
Future CoRe, in the CISE directorate (2026)	
SBIR/STTR, in the TIP directorate (2024)	
CAREER, in the EDU directorate (2022, 2023, 2024)	
EHR CORE, in the EDU directorate (2022)	
AISL, in the EDU directorate (2021)	
CSforAll, in the CISE and EDU directorates (2020, 2025)	
DRK-12, in the EDU directorate (2019, 2020)	
Cyberlearning, in the EDU and CISE directorates (2018)	
Institute of Education Sciences External Reviewer (Grant)	
Social Sciences and Humanities Research Council of Canada (Grant)	
Computers & Education (Journal)	
Computer Science Education (Journal)	

EngageCSEdu (Journal)  
 Transactions on Computing Education (Journal)  
 Journal of College Science Teaching (Journal)  
 PLOS One (Journal)  
 Nordic Journal of English Studies (Journal)  
 Computational Thinking as Subject or Across Subjects (Book)  
 Book Proposal [confidential] for MIT Press (Book)  
 International Computing Education Research (Conference)  
 International Conference of the Learning Sciences (Conference)  
 ACM SIGCSE Technical Symposium (Conference)  
 ACM Global Computing Education Conference (Conference)  
 ACM Southeast (Conference)  
 ACM SIG Computer Human Interaction (Conference)

### State and Local Community

<b>Steering Committee Member</b> , CSforAtlanta	2024-present
<b>Member</b> , CS Advisory Council, Georgia Department of Education	2018-present
<b>Organizer</b> , Georgia State University AI Literacy and Entrepreneurship Summer Camp	2025
<b>Contributor</b> , Three-Year Strategic Planning Session for Computer Science Education organized by Georgia Department of Education and CS4GA	2021
<b>Contributor</b> , Three-Year Strategic Planning Session for Computer Science Education organized by Georgia Department of Education and CS4GA	2019
<b>Writer</b> , Development team for K-8 Georgia Standards of Excellence for Computer Science organized by Georgia Department of Education	2018
<b>Contributor</b> , State-level Planning Meeting for Computing Education, sponsored by Code.org	2017

### Department, College, and University

<b>Founding Director</b> , Snap Inc. Center for Computer and Teacher Education <a href="https://education.gsu.edu/snap-inc-center/">https://education.gsu.edu/snap-inc-center/</a> <ul style="list-style-type: none"> <li>Established and coordinate faculty fellows and mini-grant programs</li> <li>Pursue funding for programs and research, including supporting affiliated faculty in writing grants</li> <li>Organize community, partner, and donor events</li> <li>Manage a \$300K+ annual budget</li> <li>Supervise the center's business manager</li> <li>Maintain physical space and equipment and oversaw renovations</li> </ul>	2020-present
<b>Program Director</b> , Learning Technologies <ul style="list-style-type: none"> <li>Create course schedules and manage program coordinators, part-time instructors, and GTAs</li> <li>Coordinated AI-integration into courses program-wide</li> </ul>	2023-present

- Oversaw Masters program redesign to improve student experience
- Oversaw coordinated integration of GenAI technologies into courses

<b>Learning Technologies Rep</b> , Research Resources Steering Committee	2022-present
<b>Tech Fee Committee</b> , Review proposals for distributing tech fee funds	2018-present
<b>Member</b> , Search Committee – Director, Interactive Teaching and Learning Lab	2025
<b>Member</b> , Search Committee – Postdoctoral Scholar, PrepareCS Project	2025
<b>Member</b> , Search Committee – Business Manager, Snap Center	2025
<b>Program Coordinator</b> , Computer Science Teacher Endorsement	2018-24
<b>Program Coordinator</b> , Instructional Design and Technology Ph.D.	2018-22
<b>Chair</b> , Tenure-Track Faculty Search Committee, Dept. of Learning Sciences	2019, ‘20, ‘22

## CONSULTING

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<b>The Implementation Group</b> , Washington, DC	July 2025
▪ Provided an external review to support the preparation of an NSF grant	
<b>Georgia Department of Education</b> , Atlanta, Georgia	July 2023
▪ Led teacher professional learning session on integrated computing at MathCON	
<b>Georgia Department of Education</b> , Atlanta, Georgia	June – August 2022
▪ Designed computing integration content and activities for 8 <sup>th</sup> grade science courses	
<b>Georgia Public Broadcasting</b> , Atlanta, Georgia	May 2022 – May 2023
▪ Aligned Georgia K-8 CS standards to educational games in Gasha Go environment	
▪ Supported all elements of production cycle from concept creation to testing and release	
<b>Maryland Center for Computing Education</b> , Frederick, Maryland	July 2022
▪ Led teacher professional learning session on computational thinking and integrated computing	
▪ Scaffolded hack-a-thon-type activity for teachers to create computing integration activities	
<b>Georgia Department of Education</b> , Atlanta, Georgia	April – July 2021
▪ Created course about human-computer interaction for online teacher professional learning	
▪ Designed content and activities for implementation in Canvas hosted by Georgia Virtual	
<b>Georgia Department of Education</b> , Atlanta, Georgia	March – August 2019
▪ Planned implementation aids for newly created K-8 CS standards	
▪ Led development of sample curriculum for Middle School Computer Science I course	
<b>Human Interfaces, Inc.</b> , Austin, Texas	August 2010 – July 2011
▪ Tested software and hardware using Human Factors methodologies	
▪ Analyzed results by coding qualitative data and using SPSS for quantitative data	
▪ Wrote and peer reviewed reports about methodology and results to deliver to clients	
▪ Designed website with interdisciplinary team <a href="http://www.austintechinsights.com/home.shtml">http://www.austintechinsights.com/home.shtml</a>	

## VISIBILITY AND MEDIA COVERAGE

Personal website: laurenmarg.com, includes pages for Research, Talks, Teaching, and Blog

- All-time views at end of 2025 = 66,007; All-time visitors = 39,256
- 2025 views = 9,850; 2025 visitors = 6,376

Publication Reference	Coverage
Google Partnership	Public Relations and Marketing Communications (2025, November). Georgia State University Collaborates with Google to Expand Access to AI, Computer Science Education. <i>Georgia State News Hub</i> . <a href="https://news.gsu.edu/2025/11/11/georgia-state-university-collaborates-with-google-to-expand-access-to-ai-computer-science-education/">https://news.gsu.edu/2025/11/11/georgia-state-university-collaborates-with-google-to-expand-access-to-ai-computer-science-education/</a>  Featured in <i>11Alive</i> , <i>CBS News</i> , <i>Government Technology</i> , <i>95.5 WSB</i> , <i>WSB-TV</i> , <i>Atlanta Business Chronicle</i> , <i>Yahoo!News</i> , <i>RoughDraft Atlanta</i> , <i>History Commons</i> , <i>Markets Financial Content</i> , <i>ResearchWize</i> , and <i>Acast</i>
Google Grant	Gwinnett County Public Schools (2025, October). External Report on Impact of AI-Ready Learning. <a href="https://resources.finalsite.net/images/v1759413986/gcpsk12org/bluxdfge9qwnghdownma5/_GCPSAI-ReadyPilotExternalReport_v2eq.pdf">https://resources.finalsite.net/images/v1759413986/gcpsk12org/bluxdfge9qwnghdownma5/_GCPSAI-ReadyPilotExternalReport_v2eq.pdf</a>
J29	Nosta, J. (2025, October). Succisa Virescit: The Cut That Makes Us Grow. <i>Psychology Today</i> . <a href="https://www.psychologytoday.com/za/blog/the-digital-self/202510/succisa-virescit-the-cut-that-makes-us-grow">https://www.psychologytoday.com/za/blog/the-digital-self/202510/succisa-virescit-the-cut-that-makes-us-grow</a>
P21	Vaughn, S. (2025, September). Learning Sciences Faculty, Doctoral Students Present at 2025 International Computing Education Research Conference. <i>News at DLS</i> . <a href="https://education.gsu.edu/2025/09/22/learning-sciences-faculty-doctoral-students-present-at-2025-international-computing-education-research-conference/">https://education.gsu.edu/2025/09/22/learning-sciences-faculty-doctoral-students-present-at-2025-international-computing-education-research-conference/</a>
AILP3	Kelly, R. (2025, July). Georgia State U and Operation HOPE Program Fosters AI Literacy in Underserved Youth. <i>Campus Technology</i> . <a href="https://campustechnology.com/articles/2025/07/22/georgia-state-u-and-operation-hope-program-fosters-ai-literacy-in-underserved-youth.aspx">https://campustechnology.com/articles/2025/07/22/georgia-state-u-and-operation-hope-program-fosters-ai-literacy-in-underserved-youth.aspx</a>
J29	Powell, L. (2025, June). Learning from Failure: The Biological Case for Embracing Mistakes. <i>Psychology in the Classroom</i> [Podcast]. <a href="https://changingstatesofmind.libsyn.com/learning-from-failure-the-biological-case-for-embracing-mistakes">https://changingstatesofmind.libsyn.com/learning-from-failure-the-biological-case-for-embracing-mistakes</a>
Award	Miller, C. (2025, June). CEHD Receives ISTE+ASCD Distinguished Educator Preparation Program Award. <i>Georgia State News Hub</i> . <a href="https://news.gsu.edu/2025/06/25/cehd-receives-isteascd-distinguished-educator-preparation-program-award/">https://news.gsu.edu/2025/06/25/cehd-receives-isteascd-distinguished-educator-preparation-program-award/</a>
Award	Kelly, L. (2025, June). ISTE+ASCD Reveals 2025 Honorees for Innovation and Excellence in Education. <i>ISTE Newsroom</i> . <a href="https://iste.org/news/iste-ascd-reveals-2025-honorees-for-innovation-and-excellence-in-education">https://iste.org/news/iste-ascd-reveals-2025-honorees-for-innovation-and-excellence-in-education</a>

	Featured in <i>eSchool News</i> .
P19	Smith, J. M. & Wallace, C. (2025, April). 2025 SIGCSE Technical Symposium Report. <i>SIGCSE Bulletin</i> , 57(2). p.9. <a href="https://sigcse.org/about/bulletin/bulletin.57.2.pdf">https://sigcse.org/about/bulletin/bulletin.57.2.pdf</a>
P19	Vaughn, S. (2025, April). Margulieux, Rahimi, Anderson Receive Best Paper Award at 2025 SIGCSE Technical Symposium. <i>News at DLS</i> . <a href="https://education.gsu.edu/2025/04/09/margulieux-rahimi-anderson-receive-best-paper-award-at-2025-sigcse-technical-symposium/">https://education.gsu.edu/2025/04/09/margulieux-rahimi-anderson-receive-best-paper-award-at-2025-sigcse-technical-symposium/</a>
Award	Miller, C. (2025, March). CEHD Announces 2025 Faculty and Staff Award Recipients. <i>Georgia State News Hub</i> . <a href="https://news.gsu.edu/2025/03/13/cehd-announces-2025-faculty-and-staff-award-recipients/">https://news.gsu.edu/2025/03/13/cehd-announces-2025-faculty-and-staff-award-recipients/</a>
-	School of Psychology (2025, January). Spring 2025 Alumni Feature – Lauren Margulieux, Ph.D. <a href="https://psychology.gatech.edu/graduate-alumni-feature-where-are-they-now">https://psychology.gatech.edu/graduate-alumni-feature-where-are-they-now</a>
J24	Vaughn, S. (2024, December). Margulieux Featured in Association for Computing Machinery Video. <i>News at DLS</i> . <a href="https://education.gsu.edu/2024/12/10/margulieux-featured-in-association-for-computing-machinery-video/">https://education.gsu.edu/2024/12/10/margulieux-featured-in-association-for-computing-machinery-video/</a>
Google Grant	Gwinnett County Public Schools (2024, October). Google Awards GCPS Grant for AI-focused Research. <a href="https://www.gcpsk12.org/get-connected/district-news-and-communication/all-news/gcps-full-news-article/~board/news-releases/post/google-awards-gcps-grant-for-ai-focused-research">https://www.gcpsk12.org/get-connected/district-news-and-communication/all-news/gcps-full-news-article/~board/news-releases/post/google-awards-gcps-grant-for-ai-focused-research</a>
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