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# Carolina Moreira Oliveira

Ph.D. Candidate in Computer Science

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## EDUCATION

- 2018 - currently**    **Ph.D. Candidate in Computer Science**, Federal University of Paraná (UFPR)  
*Think Computationally: an approach to support the development of computational thinking in higher education*  
Supervisor: Prof. Roberto Pereira
- Created a challenge-based approach to support the development of computational thinking in Computing higher education.
  - Produced videos and informative content for scientific communication on social media
  - Lectured about computational thinking in 6 events as a guest speaker.
- 2014 - 2016**    **Master's Degree in Informatics**, Federal University of Paraná (UFPR)  
*Intelligent and Adaptive Sequencing of Computer Programming Statements*  
Supervisor: Prof. Andrey Ricardo Pimentel and Co-advisor: Prof. Eleandro Maschio
- Developed a prototype to select the next best exercise considering the student dynamic modeling in the Computer Programming domain using Java.
- 2011 - 2013**    **Bachelor's degree in Computer Science**, Federal University of Technology - Paraná (UTFPR)
- Undergraduate Teaching Assistant.
  - Volunteered as a digital Inclusion Instructor.

## PROFESSIONAL EXPERIENCE

- 2021 -**    **Researcher**, SageFox Consulting Group
- Created a connection and research mechanism for CS Education Graduates.
  - Conducted qualitative research.
- 2019**    **Educational Technology Instructor**, CodeHow
- Taught computational thinking to k-12 students.
  - Trained k-12 teachers on how to use technologies in education.
- 2016 - 2017**    **Lecturer**, Federal University of Technology - Paraná (UTFPR)
- Taught the following courses to undergraduate students: Data Structure, Human-Computer Interaction, Introduction to Object Orientation, Fundamentals of Programming, Web Development.
  - Advised 4 undergraduate students.

## SCIENTIFIC & ORGANIZING COMMITTEES

- 2020**    Journal on Computational Thinking (JCThink)
- Collaborates as an editor.
- 2020**    Brazilian Symposium on Computers Science Education (EduComp)

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- Leads the student volunteers team.
- 2019** Postgraduate Students Experience (STUDX)
- Coordinated a doctoral consortium on Computers in Education.
- 2018 - 2019** Workshop on Computer Science Education (WEI)
- Revised 11 scientific papers.
- 2018 - 2020** Brazilian Symposium on Computers in Education (SBIE)
- Revised 30 scientific papers.
- 2017 - 2018** Congress on Technologies in Education (Ctrl + E)
- Revised 8 scientific papers.

## HONORS AND AWARDS

- 2021** - Grace Hopper Celebration (GHC21) Scholarship Recipient.
- 2020** - [Pass it On Award honors Anita Borg's](#) - Grace Hopper Celebration (GHC20).
- 2019** - Grace Hopper Celebration (GHC19) Scholarship Recipient.
- 2019** - 2nd Place in Best Paper Award in the XXX Brazilian Symposium on Computers in Education (SBIE).
- 2019** - Best Paper Award in I Workshop on User Interaction and Research in Game Development (WiPlay 2019).
- 2018** - 1st Place in Evaluation Competition in 17th Brazilian Symposium on Human Factors in Computing Systems.
- 2018** - Honorable Mention in the IV Workshop on Teaching of Computational Thinking, Algorithms and Programming (WAlgProg).
- 2016** - Best Paper Award in the II Workshop on Teaching of Computational Thinking, Algorithms and Programming (WAlgProg).
- 2015** - 3rd Place Best Paper Award in the I Workshop on Teaching of Computational Thinking, Algorithms and Programming (WAlgProg).

## OTHER INFORMATION

- 2020** **Programming Mentor**, Codelab
- Mentored a high school student.
- 2019 - currently** **Co-founder of Brazilians in Tech**
- [Brazilians in Tech](#) is an organization to connect and support Brazilian women pursue their academic and professional paths in technology, and we offer the first platform to gather relevant information on technology.
  - Developed the Brazilians in Tech web platform using Django, HTML, CSS, and SQLite as database services.
  - Encouraged almost 600 Brazilian women to pursue their careers in technology.
  - Lead 16 volunteers.
- 2018** **Visiting Scholar**, University of Liverpool
- Collaborated in an internationalization project focused on methodological innovations for undergraduate education.

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## SCIENTIFIC PUBLICATION

**Name in citations:** Oliveira, C. M.

### Book Chapter

- Maschio, E.; **Oliveira, C. M.** Student Modelling and Knowledge Acquisition Process in Complex Nature Domains. Higher Education for All: From Challenges to Novel Technology-Enhanced Solutions, Springer International Publishing, 2018, p. 89–106. Isbn 978-3-319-97934-2.

### Journal

- Ortiz, Júlia S. B.; **Oliveira, C. M.**; Pereira, R. Teaching Computational Thinking: are we considering students' socio-cultural context? In: Journal on Computational Thinking (JCThink), v.3, n.1 (2019) p. 3–18.

### Conference Paper

- Mendez, A.; Tshukudu, E.; **Oliveira, C. M.**; Naowaprateep, W.; Peterfreund, Alan; Johnston, B. Identifying Opportunities and Potential Roadblocks for CSEd Professionals. In: International Computing Education Research (ICER'21).
- **Oliveira, C. M.**; Pereira, R; Galvão, L. F. O; Peres, L. M.; Schultz, E. Use of Challenges for Computational Thinking Development in Higher Education: An Experience Report. In: XXX Brazilian Symposium on Computers in Education (SBIE 2019), p. 2005–2014. (Paper in Portuguese)
- **Oliveira, C. M.**; Pereira, R. Development of Computational Thinking in Computer Science Higher Education. In: VIII Brazilian Congress on Computers in Education (CBIE 2019), p. 1502–1506. (Paper in Portuguese)
- **Oliveira, C. M.**; Maschio, E; Pereira, R. Computational Thinking Development with the Internet of Things. In: Proceeding of the VII Brazilian Congress on Computers in Education (CBIE 2018), p. 788–797. (Paper in Portuguese)
- Ortiz, J. S. B.; Silva Junior, D; **Oliveira, C. M.**; Pereira, R. Computational Thinking and Digital Culture: discussions on practice for digital literacy. In: VIII Brazilian Symposium on Computers in Education (CBIE 2019), p. 1241–1250. (Paper in Portuguese)
- Ferrari, B; Silva Junior, D.; **Oliveira, C. M.**; Ortiz, J. S. B.; Pereira, R. Socially Conscious Game Design: report of a practical workshop for understanding the problem and prospecting ideas. In: Workshop on User Interaction and Research in Game Development (WiPlay 2019). (Paper in Portuguese)
- Oliveira, L; **Oliveira, C. M.**; Oliveira, L; Computing, Education, Gender and Diversity: discussions and future perspectives. In: VIII Workshop on Computing Challenges Applied to Education (DesafIE 2019), p. 31–33. (Paper in Portuguese)
- Ortiz, J. S. B.; **Oliveira, C. M.**; Pereira, R. Aspects of Student Sociocultural Context are Present in Researches to Teach Computational Thinking? In: Proceedings of the VII Brazilian Congress on Computers in Education (CBIE 2018), p. 521-529. (Paper in Portuguese)
- Silva Junior, D.; **Oliveira, C. M.**; Galvão, L.; Puska, A.; Rodrigues, J. Investigating Usability Heuristics in the Mobile Context of a Health App. In: Proceedings of the XVII Brazilian Symposium on Human Factors in Computing Systems (IHC 2018). (in Portuguese)

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- Galvao, L.; **Oliveira, C. M.**; Silva Junior, D.; Puska, A.; Rodrigues, J.; Garcia, L. S.; Sousa, R. Discovering IT World: Designing a Game to Combat evasion in the area of Information Technology. In: Proceedings of SBGames 2018. (in Portuguese)
  - **Oliveira, C. M.**; Pimentel, A.; Maschio, E. Intelligent and Adaptive Sequencing of Computer Programming Statements. In: Proceeding of XXVII Workshop on Computer Education (WEI 2018), p 532-546. (in Portuguese)
  - Leite, M.; Reinaldo, F.; Maschio, E.; Marczal, D.; **Oliveira, C. M.** Computational Thinking in Schools: Limited by Technology, Infrastructure or Teaching Practice? In: Proceedings of the Brazilian Congress on Computers in Education (CBIE 2017), p.1002-1010. (in Portuguese)
  - **Oliveira, C.M.**; Maschio, E.; Pimentel, A.R. NextStep: A Prototype for Intelligent and Adaptive Sequencing of Computer Programming Statements. In: Proceeding of the V Brazilian Congress on Computers in Education (CBIE 2016), p. 1238-1248. (in Portuguese)
  - **Oliveira, C.M.**; Maschio, E.; Pimentel, A.R. Study on Intelligent and Adaptive Sequencing of Computer Programming Statements In: Proceeding of the IV Brazilian Congress on Computers in Education (CBIE 2015), p. 1320-1329. (in Portuguese)
  - **Oliveira, C.M.**; Pozo, A. T.R. N-Queens Problem Resolution Using ACO. In: Proceeding of National Meeting of Artificial and Computational Intelligence (ENIAC), p.353-358. São Carlos – SP, 2014. (in Portuguese)