Marcelo d'Amorim

Associate Professor, Computer Science Department North Carolina State University

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Skype id	Address						
Baleigh, NC 2706 Work Phone							
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University of Illinois at Urbana-Champaign. Champaign, IL, US Ph.D. in Computer Science Dissertation title: "Efficient Explicit-State Model Checking for Programs with Dynamically Allocated Data" Advisors: Darko Marinov Federal University of Pernambuco. Recife, PE, Brazil BS. in Computer Science Research Interests Research Interests Research Interests North Carolina State University Pederal University of Pernambuco (UFPE). Raleigh, NC, US Associate Professor. Advising: 5PhB (1 from UFPE) Pederal University of Pernambuco (UFPE). Recife, PE, Brazil Associate Professor. Advising: 5PhB (1 from UFPE) Pederal University of Pernambuco (UFPE). Recife, PE, Brazil Associate Professor. Graduated: 1PhD+8MS, Co-advised: 4MS. 15-16 Georgia Institute of Technology Visiting Scholar at the Arktos group led by Alessandro Orso Pederal University of Pernambuco Visiting Scholar at the Arktos group led by Paulo Borba https://github.com/ncsu-swat Software Software https://damorim.github.lo/service.html Current PhD Students Perian (Alex) Qin, TBD Lingium Lin, TBD M. Aidi Naziri, Finding Bugs in Deep Learning Libraries at Scale 1-blarka Huyet, TBD Dennin Silva (UFPE), Practical Detection of Flaky Tests with Noise Graduated Students Sarah Ekler (Co-advised with Laurie Williams), Supply-Chain Security Analysis with Score Cards Now: Toching Faculty at UNC Williamigton MS-23 Paulo Nunes, Detecting Failures in Autonomous Driving with XAI Now: Software Architect at Sclenatis MS-23 Beatrix Souza, Automated Detection of Code-Comment Inconsistencies Now: Pola Nuclear Arthitect at Sciencials MS-18 Luis Melo, Using Docker to Assist QA Forum Users Now: Pola Nuclear at Tilversity of Stuttagrat, Germany MS-10 Luis Melo, Using Docker to Assist QA Forum Users Now: Pola Nuclear at Tilversity of Stuttagrat, Germany MS-10 Luis Melo, Using Docker to Assist QA Forum Users Now: Pola Nuclear at Tilversity of Stuttagrat, Germany MS-10 Luis Melo, Using Docker to Assist QA Forum Users Now: Pola Nuclear at Tilversity of Stuttagrat, Germany MS-1	Raleigh, N	Raleigh, NC 27606 Work Phone+1 (919) 515-3644					
University of Illinois at Urbana-Champaign. Champaign, IL, US Ph.D. in Computer Science Dissertation title: "Efficient Explicit-State Model Checking for Programs with Dynamically Allocated Data" Advisors: Darko Marinov Federal University of Pernambuco. Recife, PE, Brazil BS. in Computer Science Research Interests Research Interests Research Interests North Carolina State University Pederal University of Pernambuco (UFPE). Raleigh, NC, US Associate Professor. Advising: 5PhB (1 from UFPE) Pederal University of Pernambuco (UFPE). Recife, PE, Brazil Associate Professor. Advising: 5PhB (1 from UFPE) Pederal University of Pernambuco (UFPE). Recife, PE, Brazil Associate Professor. Graduated: 1PhD+8MS, Co-advised: 4MS. 15-16 Georgia Institute of Technology Visiting Scholar at the Arktos group led by Alessandro Orso Pederal University of Pernambuco Visiting Scholar at the Arktos group led by Paulo Borba https://github.com/ncsu-swat Software Software https://damorim.github.lo/service.html Current PhD Students Perian (Alex) Qin, TBD Lingium Lin, TBD M. Aidi Naziri, Finding Bugs in Deep Learning Libraries at Scale 1-blarka Huyet, TBD Dennin Silva (UFPE), Practical Detection of Flaky Tests with Noise Graduated Students Sarah Ekler (Co-advised with Laurie Williams), Supply-Chain Security Analysis with Score Cards Now: Toching Faculty at UNC Williamigton MS-23 Paulo Nunes, Detecting Failures in Autonomous Driving with XAI Now: Software Architect at Sclenatis MS-23 Beatrix Souza, Automated Detection of Code-Comment Inconsistencies Now: Pola Nuclear Arthitect at Sciencials MS-18 Luis Melo, Using Docker to Assist QA Forum Users Now: Pola Nuclear at Tilversity of Stuttagrat, Germany MS-10 Luis Melo, Using Docker to Assist QA Forum Users Now: Pola Nuclear at Tilversity of Stuttagrat, Germany MS-10 Luis Melo, Using Docker to Assist QA Forum Users Now: Pola Nuclear at Tilversity of Stuttagrat, Germany MS-10 Luis Melo, Using Docker to Assist QA Forum Users Now: Pola Nuclear at Tilversity of Stuttagrat, Germany MS-1	Education						
Ph.D. in Computer Science Dissertation title: "Efficient Explicit-State Model Checking for Programs with Dynamically Allocated Data" Advisor: Darko Marinov Federal University of Pernambuco Recife, PE, Brazil M.S. in Computer Science B.S. in Computer Science B.S. in Computer Science B.S. in Computer Science Wy research interests are in the areas of Software Engineering and Programming Languages, with a focus on improving software reliability through program analysis and systematic testing. Experience Experience Port Associate Professor, Advising: 5PhD (I from UFPE) Recife, PE, Brazil Associate Professor, Cadvising: 5PhD (I from UFPE) Recife, PE, Brazil Associate Professor, Cadvising: 5PhD (I from UFPE) Recife, PE, Brazil Associate Professor, Cadvated: 1PhD+SMS, Co-advised: 4MS. Georgia Institute of Technology Advanced Adva	Eddodololi	University of Illinois at Urbana-Champa	ign				
Dissertation title: "Efficient Explicit-State Model Checking for Programs with Dynamically Allocated Data" Advisor: Darko Marinov Pederal University of Pernambuco	2007	-					
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2001 M.S. in Computer Science							
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Visiting Scholar at the Arktos group led by Alessandro Orso Pederal University of Pernambuco	'15–'16						
Federal University of Pernambuco							
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Now: PhD student at TU Delft, Netherlands MS'16 Paulo Barros, Resolving Java Reflection and Android Intents Now: Senior Software Engineer at Chronicled, Brazil MS'15 Mateus Borges, qCORAL: Quantitative Constraint Solver for Complex Mathematical Constraints Now: Senior Backend Engineer at Elinvar Gmbh, Germany PhD'15 Sabrina Souto, Addressing High Dimensionality and Lack of Feature Models in Testing of Software Product Lines	MS'18						
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MS'15 Mateus Borges, qCORAL: Quantitative Constraint Solver for Complex Mathematical Constraints Now: Senior Backend Engineer at Elinvar Gmbh, Germany PhD'15 Sabrina Souto, Addressing High Dimensionality and Lack of Feature Models in Testing of Software Product Lines	1/10/10						
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MS'12	Elton Alves, Improved Fault Localization with Dynamic Slicing and Change Impact Analysis		
1/10/12			
	Now: Senior Software Engineer at Zartis, Spain		
MS'12	João Paulo Oliveira, Rabbit - A Novel Approach to Find Data Races in Concurrent Programs		
	Co-advised with Fernando Castor, Now: CEO NoxBitcoin, Brazil		
MS'10	Andrei Rimsa Alvares, Efficient Static Analysis to Find Tainted Variable Attacks		
	Co-advised with Fernando Pereira and Roberto Bigonha, Now: Assistant Professor at CEFET-MG, Brazil		
MS'09	Mitsuo Takaki, Effective CSP solvers with Particle-Swarm Optimization and Genetic Algorithms		
	Co-advised with Ricardo Prudêncio, Now: Principal Software Engineer at Absolute Software, Canada		
MS'08	Gláucia Peres, A Black-box Testing Technique for the Detection of Crashes Based on Automated Test		
	Scenarios		
	Condition of the Alexandra Mate, Name Director of Engineering at Evel Dealer Condi		

Co-advised with Alexandre Mota, Now: Director of Engineering at FreshBooks, Canada

Funding

Grant support after joining NC State in 2022. Amount of financial support appears as a fraction x/y, with x showing my part and y showing the total amount:

- 24-27, \$571K/\$571K, PI, NSF, SHF: Small: E2R2, A Comprehensive Approach to Improve Simulation-based Testing of Autonomous Driving Systems.
- 23-25, \$50K/\$100K, PI, NSF, Collaborative Research: FMitF: Track II: Cross-Language Support for Runtime Verification (CNS-2026928).
- 20-24, \$199.9K/\$404.3K, PI, NSF, Collaborative Research: SaTC: TTP: Small: eSLIC: Enhanced Security Static Analysis for Detecting Insecure Configuration Scripts. [[This PI was transferred to me from Dr. Parnin, who left NC State]]

Teaching

Classes I taught at NC State.

Term	Class
Fa 2024	CSC 591/712: Software Testing (G), 40 students
Sp 2024	[[No teaching due to FSE organization]]
Fa 2023	CSC 712: Software Testing (G), 11 students
Sp 2023	CSC 510: Software Engineering (G), 60 students

Classes I taught at the Federal University of Pernambuco (UFPE) in reverse-chronological order. The academic year at UFPE consists of two semesters, referred to as year.1 and year.2. The letters U and G indicate Undergraduate and Graduate-level courses, respectively. For undergraduate courses, there are two classes per week, and the duration of a class is 2h. Graduate-level courses are more flexible.

Term	Class 1	Class 2
2022.1	Software Engineering (U), 53 students	Advanced Software Testing (G), 22 students
2021.2	Software Engineering (U), 48 students	Advanced Software Testing (G), 16 students
2021.1	Software Engineering (U), 58 students	Advanced Software Testing (G), 19 students
2020.2	Compilers (U), 22 students	Software Testing (U), 27 students
2020.1	Compilers (U), 62 students	Software Testing (U), 17 students
2019.2	Compilers (U), 24 students	Software Testing (U), 34 students
2019.1	Compilers (U), 43 students	Advanced Software Testing (G), 21 students
2018.2	Compilers (U), 14 students	Advanced Software Testing (G), 15 students
2018.1	Compilers (U), 27 students	Advanced Software Testing (G), 18 students
2017.2	Compilers (U), 21 students	Advanced Software Testing (G), 34 students
2017.1	Compilers (U), 22 students	Advanced Software Testing (G), 20 students
2016.2	Compilers (U), 29 students	Advanced Software Testing (G), 28 students
2016.1		sabbatical
2015.2		
2015.1	Compilers (U), 45 students	Seminar in Software Testing (G), 18 students
2014.2	Compilers (U), 34 students	Seminar in Software Testing (G), 7 students
2014.1	Compilers (U), 35 students	Seminar in Software Testing (G), 9 students

2013.2	Compilers (U), 40 students	Seminar in Software Testing (G), 9 students
2013.1	Compilers (U), 31 students	Seminar in Software Testing (G), 12 students
2012.2	Compilers (U), 32 students	Introduction to Computing (U), 68 students
2012.1	Compilers (U), 38 students	Introduction to Computing (U), 71 students
2011.2	Compilers (U), 40 students	Introduction to Computing (U), 73 students
2011.1	Compilers (U), 38 students	Introduction to Computing (U), 70 students
2010.2	Introduction to Computing (U), 72 students	Introduction to Computing (U), 80 students
2010.1	Functional Programming (U), 15 students	Introduction to Static Analysis (G), 10 students
2009.2	Operating Systems (U), 24 students	Introduction to Computing (U), 91 students
2009.1	Introduction to Computing (U), 77 students	Introduction to Computing (U), 67 students

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- [C4] F. Molina, M. d'Amorim, and N. Aguirre, "Fuzzing class specifications," in 44th IEEE/ACM 44th International Conference on Software Engineering, ICSE 2022, Pittsburgh, PA, USA, May 25-27, 2022, 2022, pp. 1008–1020.
- [C5] S. Reis, R. Abreu, M. d'Amorim, and D. Fortunato, "Leveraging practitioners' feedback to improve a security linter," in 37th IEEE/ACM International Conference on Automated Software Engineering, ASE 2022, Rochester, MI, USA, October 10-14, 2022, 2022, 66:1-66:12.
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- [C11] B. Miranda, I. Lima, O. Legunsen, and M. d'Amorim, "Prioritizing runtime verification violations," in 13th IEEE International Conference on Software Testing, Validation and Verification, ICST 2020, Porto, Portugal, October 24-28, 2020, 2020, pp. 297–308.
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- [C38] M. d'Amorim and G. Roşu, "Efficient monitoring of ω -languages," in *Proceedings of 17th International Conference on Computer-aided Verification*, vol. 3576, 2005, pp. 364–378.
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- [J7] R. Gheyi, M. Ribeiro, B. Souza, M. A. Guimarães, L. Fernandes, M. d'Amorim, V. Alves, L. Teixeira, and B. Fonseca, "Identifying method-level mutation subsumption relations using Z3," *Inf. Softw. Technol.*, vol. 132, p. 106496, 2021.
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Short Papers (Conference and Workshop)

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- [S2] M. Cordeiro, D. Silva, L. Teixeira, B. Miranda, and M. d'Amorim, "Shaker: A tool for detecting more flaky tests faster," in 36th IEEE/ACM International Conference on Automated Software Engineering, ASE 2021, Melbourne, Australia, November 15-19, 2021, 2021, pp. 1281–1285.
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