Resume - C.D.N. (Diego) Damasceno

damascenodiego.github.io /damascenodiego /damascenodiego

Summary

Creative software engineer with exceptional testing skills, and over a decade of experience in software research and development. Collaborated with experts in AI, optimization, software architecture, and education. Experienced with software modeling, testing, and variability.

Education

05/2016–07/2020 **Ph.D., Computer Science and Computational Mathematics**
University of São Paulo (ICMC-USP), São Carlos - SP, Brazil
Thesis: Learning state machine models from evolving systems

04/2020–12/2021 **MBA, Project Management**
University of São Paulo (USP/Esalq), Piracicaba-SP, Brazil
Thesis: Best practices for artifact quality management in software engineering research

02/2014–05/2016 **M.Sc., Computer Science and Computational Mathematics**
University of São Paulo (ICMC-USP), São Carlos - SP, Brazil
Thesis: Evaluating model-based testing methods on RBAC systems

03/2008–01/2014 **B.Sc., Computer Science**
Federal University of Pará (UFPa), Belém - PA, Brazil

Main Professional Experiences

06/2023–Current **ASML, Veldhoven, NL**
Position: Design Engineer - Model-Based Testing Methodologies

12/2020–05/2023 **Radboud University, Nijmegen, NL**
Position: Postdoctoral Researcher in Software Science

03/2020–11/2020 **Postgraduate in Computing Applied to Education, Sao Carlos, BR**
Position: Postgraduate Student Supervisor and Online tutor

11/2018–12/2019 **University of Leicester, Leicester, UK**
Position: Visiting PhD Research Student

02/2014–07/2020 **Software Engineering Lab (LabES), São Carlos, BR**
Position: MSc and PhD Student Researcher at LabES/ICMC

10/2012–07/2013 **Siemens Corporate Research, Princeton, USA**
Position: Software Engineering Intern

Skills and Techniques

- **Programming**: Java, Python, C/C++, Bash
- **Tools**: Git, Jenkins, TDD, OOP, UML, Linux, Windows, VirtualBox
- **Engineering**: Data structures, Algorithms, Testing, Refactoring, Debugging
- **IDEs/Editors**: Eclipse, IntelliJ, PyCharm, VSCode, Vim, LaTeX, MS Office
- **Libraries**: JUnit, Commons Math, NetworkX, JGraphT, FeatureIDE, Eclipse RCP
- **Soft skills**: Communication, Teamwork, Problem solving, Adaptability, Analytical thinking
- **Others**: Scientific writing, Teaching, Project Management, Experiments, Literature review

Main Publications

1. Tavassoli, S., Damasceno, C. D. N., Khosravi, R., and Mousavi, M. R. Adaptive behavioral model learning for software product lines. In *Proceedings of the 26th ACM International Systems and Software Product Line Conference - Volume A* (New York, NY, USA, 2022), SPLC '22, Association for Computing Machinery, p. 142153. [arXiv] [DOI] **[Best Paper Award]** 🎗
2. Damasceno, C. D. N., and Strüber, D. Quality guidelines for research artifacts in model-driven engineering. In *MoDELS'21: ACM/IEEE 24th International Conference on Model Driven Engineering Languages and Systems, Virtual Event, Japan, 10-15 October, 2021* (2021), ACM. [DOI] [arXiv]
3. Damasceno, C. D. N., Mousavi, M. R., and Simão, A. Learning by sampling: learning behavioral family models from software product lines. *Empirical Software Engineering 26*, 1 (Jan. 2021), 4. [DOI]
4. Damasceno, C. D. N., Mousavi, M. R., and Simao, A. Learning to reuse: Adaptive model learning for evolving systems. In *Integrated Formal Methods (iFM)* (2019), Springer. [DOI]
5. Damasceno, C. D. N., Masiero, P. C., and Simao, A. Evaluating test characteristics and effectiveness of FSM-based testing methods on RBAC systems. In *Proceedings of the 30th Brazilian Symposium on Software Engineering (SBES)* (2016), SBES '16, ACM, pp. 83–92. [DOI] **[3rd Best Paper Award]** 🎗
6. Abdalla, G., Damasceno, C. D., Guessi, M., Oquendo, F., and Nakagawa, E. Y. A systematic literature review on knowledge representation approaches for systems-of-systems. In *Proceedings of the 2015 IX Brazilian Symposium on Components, Architectures and Reuse Software* (2015), SBCARS '15, IEEE Computer Society, pp. 70–79. [DOI]] **[3rd Best Paper Award]** 🎗

`More Details Available Upon Request`

[Resume compiled to the website https://damascenodiego.github.io/cv]