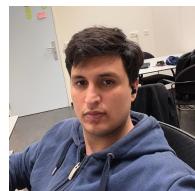


Agustín Nolasco

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 Personal Website

 LinkedIn



About Me

I'm a Computer Science graduate student at the National University of Río Cuarto (UNRC), Argentina. My research interests include software testing, formal methods, and automated verification. I have experience in academic research projects and a strong foundation in programming and software development. Currently, I am looking for opportunities to apply my skills and knowledge in real-world scenarios, particularly in the areas of software quality assurance and verification. Anyway, I can really adapt to different environments and challenges, so feel free to reach out if you think I could be a good fit for your team or project.

Employment History

Ago. 2024 – Present	 Teaching Assistant , National University of Río Cuarto, Argentina Courses: Compilers – Design of Algorithms – Algorithms and Data Structures
Apr. 2024 – Aug. 2024	 Student Teaching Assistant , National University of Río Cuarto, Argentina Course: Advanced Programming
Mar. 2024 – Aug. 2024	 QA Tester , Oliver Informatics Río Cuarto, Córdoba, Argentina
Apr. 2023 – Jan. 2024	 Grader , Guangdong Technion – Israel Institute of Technology, China Course: Introduction to Computer Science
Apr. 2023 – Jul. 2023	 Grader , Guangdong Technion – Israel Institute of Technology, China Course: Introduction to System Programming
Apr. 2022 – Sept. 2022	 Student Teaching Assistant , National University of Río Cuarto, Argentina Course: Design and Analysis of Algorithms

Education

2024–Present	 PhD. in Computer Science in National University of Córdoba, FAMAF. Córdoba. Ongoing.
2019–2024	 Computer Science Licentiate in National University of Río Cuarto. Córdoba. Final Average Score: 9.88 out of 10. Thesis title: <i>Inference of Equivalences of Method Sequences for Metamorphic Testing</i> .
2019–2021	 Computing Analyst in National University of Río Cuarto. Córdoba. Final Average Score: 9.81 out of 10.
2012–2018	 Electromechanical Equipments and Installations Technician in Technical School No.15 Ing. Agustín Mercau. Villa Mercedes, San Luis. Final Average Score: 8.65 out of 10.

Research Publications

Journal Articles

1 A. Nolasco, F. Molina, R. Degiovanni, *et al.*, “Abstraction-aware inference of metamorphic relations,” *Proc. ACM Softw. Eng.*, vol. 1, no. FSE, Jul. 2024.  DOI: 10.1145/3643747.

Preprints

1 R. Degiovanni, F. Molina, A. Nolasco, N. Aguirre, and M. Papadakis, *Specification inference for evolving systems*, Pre-print, 2023. arXiv: 2301.12403 [cs.SE].

Research Projects

Dec. 2021 – Present **Optimizations to Symbolic Execution and Applications**
PICT 2019
Director: Dr. Nazareno Aguirre
Position: Collaborator
Funded by: National Agency for the Promotion of Research, Technological Development, and Innovation, through FONCyT.

Jan. 2020 – Present **Application of Constraint Solving Techniques to Software Validation and Verification**
PPI 2020-2022
Director: Dr. Nazareno Aguirre
Position: Collaborator
Funded by: Secretariat of Science and Technology, National University of Río Cuarto.

Skills

Languages **English**: Lower Intermediate (strong reading/listening skills; basic conversational ability).

Coding **Java, C, C++, Python, bash, SQL, L^AT_EX, ...**

Databases **MySQL, PostgreSQL, SQLite.**

Misc. **Academic research, teaching, Programming, UNIX, L^AT_EX typesetting and publishing.**

Courses

Mar. 2025 **Advances in Automatic Software Testing**
dictated by Dr. Mike Papadakis, Río 2025 Summer School
Final Score: 9 out of 10

Introduction to Input Grammar Fuzzing
dictated by Dr. Andreas Zeller, Río 2025 Summer School
Final Score: 10 out of 10

Analysis of mobile apps for quality and trustworthiness
dictated by Dr. Alessandra Gorla, Río 2025 Summer School
Final Score: 10 out of 10

Feb. 2024 **Dynamic Modal Logics**
dictated by Dr. Raul Fervari and Dr. Carlos Areces, Río 2024 Summer School
Final Score: 6 out of 10

Verification of Fault Trees
dictated by Dr. Joost-Pieter Katoen, Río 2024 Summer School

Aug. 2023 **Advanced Data Structures**
dictated by Dr. Conrado Martínez, ECI 2023
Final Score: 10 out of 10

Fuzzing for Compiler Testing
dictated by Dr. Guillermo Polito, ECI 2023
Final Score: 9 out of 10

Courses (continued)

Feb. 2023

- **Modeling and Analyzing Concurrent Systems**
dictated by Dr. Thomas Noll, Río 2023 Summer School
Final Score: 8 out of 10
- **Formal Approaches to Decision-Making under Uncertainty**
dictated by Dr. Arnd Hartmanns, Río 2023 Summer School

Aug. 2022

- **Introduction to APIs**
dictated by Dr. Guido De Caso, ECI 2022
Final Score: 8 out of 10
- **Satellite Images Processing**
dictated by Dr. Rafael Grimson, ECI 2022
Final Score: 7 out of 10

Oct. 2019

- **Software Testing**
dictated by Dr. Nazareno Aguirre, CACIC 2019
Final Score: 10 out of 10

2011–2016

- **English Academy**
Superior Institute of English Language, Villa Mercedes, San Luis

Miscellaneous Experience

Awards and Achievements

2023 – 2024

- **First Major National Flag Escort**, National University of Río Cuarto.

2017 – 2018

- **National Flag Bearer**, Technical School No.15 Ing. Agustín Mercau.

2017

- **Max Average Score of the Class**, Technical School No.15 Ing. Agustín Mercau.
Average Score 9.66 out of 10

Scholarships

Ago. 2024 – Present

- **PhD. Scholarship**. National Scientific and Technical Research Council (CONICET).

Sept. 2022 – Aug. 2023

- **EVC-CIN Scholarship 2021**. Stimulation Scholarship for Scientific Vocations.

References

Dr. Nazareno Aguirre

Full Professor – Independent Researcher
National University of Río Cuarto, Córdoba, Argentina
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Dr. Facundo Molina

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facundo.molina@imdea.org