Facundo MOLINA

PERSONAL INFORMATION

PLACE AND DATE OF BIRTH:	Carnerillo - Córdoba - Argentina — 1994 August 12
NATIONAL IDENTIFICATION NUMBER:	37.488.945
NATIONALITY:	Argentinian
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GITHUB:	https://github.com/facumolina

EDUCATION

2012 - 2014 **B.S. in Computer Science**
Department of Computer Science - FCEFQyN
University of Río Cuarto - Argentina
THESIS PROJECT: Project in the course of Distributed and Outsourced
Software Engineering
AVERAGE SCORE: 9,33

2012 - 2017 **M.S. in Computer Science**
Department of Computer Science - FCEFQyN
University of Río Cuarto - Argentina
THESIS PROJECT: Automatic Learning of Relational Specifications using
Evolutionary Computation
AVERAGE SCORE: 9,43

2017 - PRESENT **Ph.D. in Computer Science**
Software Engineering - Formal Methods - Machine Learning
The main research direction is the application of machine learning techniques to
program analysis tasks.
Department of Computer Science - FCEFQyN
University of Río Cuarto - Argentina

TEACHING BACKGROUND

AUGUST 2014 - NOVEMBER 2014 **Student Teaching Assistant**
COURSE: Data Structures and Algorithms
Department of Computer Science - FCEFQyN
University of Río Cuarto - Argentina

MARCH 2015 - JUNE 2015 **Student Teaching Assistant**
COURSE: Algorithm Design Techniques
Department of Computer Science - FCEFQyN
University of Río Cuarto - Argentina

AUGUST 2015 - NOVEMBER 2015 **Student Teaching Assistant**
COURSE: Programming Paradigms
Department of Computer Science - FCEFQyN
University of Río Cuarto - Argentina

MARCH 2016 - JUNE 2016	**Student Teaching Assistant** COURSE: System Design and Analysis *Department of Computer Science - FCEFQyN* *University of Río Cuarto* - Argentina
AUGUST 2016 - NOVEMBER 2016	**Student Teaching Assistant** COURSE: Programming Paradigms *Department of Computer Science - FCEFQyN* *University of Río Cuarto* - Argentina
MARCH 2017 - JUNE 2017	**Student Teaching Assistant** COURSE: Algorithm Design Techniques *Department of Computer Science - FCEFQyN* *University of Río Cuarto* - Argentina
MARCH 2018 - JUNE 2018	**Teaching Assistant** COURSE: Computability and Complexity *Department of Computer Science - FCEFQyN* *University of Río Cuarto* - Argentina
AUGUST 2018 - PRESENT	**Teaching Assistant** COURSE: Distributed and Outsourced Software Engineering *Department of Computer Science - FCEFQyN* *University of Río Cuarto* - Argentina

PUBLICATIONS

NOVEMBER 2016	**An Evolutionary Approach to Translate Operational Specifications into Declarative Specifications** - Facundo Molina, César Cornejo, Renzo Degiovanni, Germán Regis, Pablo Castro, Nazareno Aguirre and Marcelo Frias *Proceedings of the 19th Brazilian Symposium on Formal Methods* *SBMF 2016, Natal, Brazil, November 22-25, 2016.* SBMF 2016 Best paper award.
MAY 2018	**From Operational to Declarative Specifications using a Genetic Algorithm** - Facundo Molina, Renzo Degiovanni, Germán Regis, Pablo Castro, Nazareno Aguirre and Marcelo Frias *Proceedings of the 11th International Workshop on Search-Based Software Testing,* *SBST@ICSE 2018, Gothenburg, Sweden, May 28-29, 2018.* SBST 2018 Best paper award.
SEPTEMBER 2018	**A Genetic Algorithm for Goal-Conflict Identification** Renzo Degiovanni, Facundo Molina, Germán Regis and Nazareno Aguirre *Proceedings of the 33rd ACM/IEEE International Conference on Automated* *Software Engineering, ASE 2018, Montpellier, France, September 3-7, 2018.*

Courses

February 2015	**Description Logic Reasoning** - Dr. Anni-Yasmin Turhan *Summer School of Computer Science RIO 2015* *University of Río Cuarto* - Argentina
February 2015	**Fundamentals of Quantum Programming Languages** - Dr. Alejandro Díaz-Caro *Summer School of Computer Science RIO 2015* *University of Río Cuarto* - Argentina
February 2016	**Symbolic Program Analysis** - Prof. Willem Visser *Summer School of Computer Science RIO 2016* *University of Río Cuarto* - Argentina
February 2016	**Systematic Test Case Generation** - Prof. Sarfraz Khurshid *Summer School of Computer Science RIO 2016* *University of Río Cuarto* - Argentina
March 2016 June 2016	**Software Testing** - Dr. Renzo Degiovanni *Main software testing techniques using state-of-the-art tools* *Postgraduate courses* *University of Río Cuarto* - Argentina
February 2017	**Human Dynamics: Data, Networks and Modelling** - Dr. Márton Karsai *Summer School of Computer Science RIO 2017* *University of Río Cuarto* - Argentina
August 2017 November 2017	**Text Mining** - Dr. Laura Alonso Alemany *Text Mining techniques applied to Natural Language Processing problems (Word similarity, Document clustering, Sense discrimination, Machine translation)* *Postgraduate courses* *University of Córdoba* - Argentina
September 2018 Present	**Neural Networks** - Dr. Francisco Tamarit *Mathematical foundations of artificial neural networks* *Postgraduate courses* *University of Córdoba* - Argentina

Experience

April 2015 - Present	**Software Engineer** SMF Consulting S.L *Semi remote position providing software solutions based on the Openbravo ERP platform using technologies suchs as Java, PostgreSQL, Oracle, Hibernate, JavaScript, Mercurial.* http://smfconsulting.es Spain

Technical Skills

Most experienced languages	Java, C, C++, Python, JavaScript
Other known languages	Shell, Haskell, Lisp, Eiffel
Used frameworks	Spring, Sklearn, NodeJS, AngularJS
Used IDEs	Eclipse, VisualStudio, AndroidStudio
Databases	PostgreSQL, MySQL, Oracle, MongoDB
Version Control Systems	GitHub, Mercurial, Subversion
Project Management Software	Maven, Ant

Languages

Spanish:	Mother language
English:	Fluid