

CONTACT INFORMATION	Place of residence: Buenos Aires City, Argentina	<i>Website:</i> www.rcastano.com.ar/about
EDUCATION	University of Buenos Aires, (UBA), Facultad de Ciencias Exactas y Naturales (FCEyN), Buenos Aires city, Argentina (Faculty of Exact and Natural Sciences)	
	PhD in Computer Science	2013 – Expected graduation: March 2018
	Formal Aspects of Software Engineering	
	Licenciatura en Ciencias de la Computación (equivalent to Computer Science Bachelor + MSc.)	2006 – 2012
	GPA 9.78 (10.0 scale)	
AWARDS	Invitation to Heidelberg Laureate Forum	2015
	Microsoft Research PhD Fellowship (Latin America)	2014
	National Academic Merit Award (Awarded by Grade Average)	2012
	Santander Río Bank	
INTERNSHIPS AND EMPLOYMENT	Facebook: Intern September 2015 – December 2015 Security/Static Analysis of Hack (PHP) code Extended modular taint analysis based on abstract interpretation to detect hardcoded cryptographic secrets. Language: OCaml	
	Microsoft Research: Intern June 2014 – September 2014 Research in Software Engineering (RiSE): http://research.microsoft.com/en-us/groups/rise/ Exploratory work on tackling correctness proofs for concurrency using assume-guarantee reasoning and thread summaries. Language: C#, Boogie IVL	
	Google: Software Engineering intern	January 2014 – April 2014
	Knowledge team (Machine learning, inference in probabilistic graphical models).	
	Language: Python	
	UBA: Teaching Assistant	March – August 2012, April 2013 – ongoing
	Google: Software Engineering intern	January 2013 – April 2013
	Developed a new feature related to process management in clusters.	
	Language: C++	
	INRIA Nancy (VERIDIS Team): Research Intern	September 2012 – December 2012
	SMT solver development.	
	Language: C	
	UBA: Research Intern	October 2011 – September 2012

PUBLICATIONS

Model Checker Execution Reports, R. Castaño, Victor A. Braberman, Diego Garbervetsky, Sebastian Uchitel, International Conference on Automated Software Engineering (ASE) 2017 Proceedings, New Ideas Paper (In print), 2017

On verifying resource contracts using Code Contracts, R. Castaño, J. P. Galeotti, D. Garbervetsky, J. Tapicer, E. Zoppi, *Latin American Workshop on Formal Methods (LAFM) 2013* doi:10.4204/EPTCS.139.1

A Finite State Intersection Approach to Propositional Satisfiability, J. M. Castaño, R. Castaño, *Theoretical Computer Science, Volume 450, p. 92–108*, 2012. doi:10.1016/j.tcs.2012.04.030

Variable and Clause Ordering in an FSA Approach to Propositional Satisfiability, J. M. Castaño, R. Castaño, *LNCS, Volume 6807, CIAA 2011 Proceedings, p. 76-87*, 2011 doi:10.1007/978-3-642-22256-6_8

TECHNICAL REPORTS

Verification Coverage, R. Castaño, et. al. preprint: arXiv:1706.03796, 2017

Model Checker Execution Reports, R. Castaño, et. al. preprint: arXiv:1607.06857, 2016

OPEN SOURCE SOFTWARE

Java/Python: CPAchecker Software Model Checker

C++ developer (Ad honorem) for FuDePAN

FuDePAN was an officially recognized nonprofit organization devoted to researching and developing solutions to human health problems by means of bioinformatics.

Key achievement: Implementing a lossless compression algorithm customized for the constraints at hand. This allowed us to handle much larger collections of molecular structures in our experiments.

ACADEMIC SCHOLARSHIPS

PhD scholarship April 2013 – March 2018
Funded by CONICET (National Scientific Council)

“Estímulo” Scholarship (UBA research scholarship/internship) 2011–2012

Full Scholarship for Applied Functional Programming in Haskell 2011
(Utrecht Summer School 2011)

UBA – Universidad Autónoma de Madrid (UAM) Exchange Scholarship ¹ 2011
Funded by Santander Bank

COURSES

Verification Technology, Systems & Applications 2012

Applied Functional Programming in Haskell, *Utrecht Summer School* 2011

Spring School in Formal Languages and Applications (SSFLA) 2011

Computational Cognitive Neuroscience
Escuela de Ciencias Informáticas (ECI), FCEyN – UBA 2009

Introduction to Bioinformatics, ECI 2008

¹Received *Honors* distinction in 3 out of 4 courses I took. Awarded to at most 5% of each courses’ students.

ADDITIONAL
INFORMATION

English proficiency: TOEFL iBT Score 117 out of 120

July 6, 2012

Violinist at Orquesta Estudiantil de Buenos Aires (Buenos Aires Students Orchestra), part
of the Department of Education of Buenos Aires city

2009–2010

Volunteer in an introductory course to informatics for economically marginalized people.