# Curriculum Vitae

## Personal information

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|---|---|
| Surname / First name(s) | **MISTA, Claudio Agustín** |
| Address | San Juan 669 (06-02), Rosario, Argentina |
| Telephone | +549(3447)430762 |
| Email | amista@dcc.fceia.unr.edu.ar |
| Github | https://github.com/agustinmista |
| Date of birth | Dec 10 1991 |

## Education and training

**2012 - now**

**Master Degree in Computer Science (Undergraduate)**
Universidad Nacional de Rosario, Rosario, Argentina
Grade average: 8.59 of 10.0
Remaining subjects: 6 and Master's thesis
Expected graduation year: 2017

**2013**

**Intensive Java Course**
Polo Tecnológico Rosario, Rosario, Argentina
Course grade: 10 of 10

**2011 - 2012**

**Electronic Engineer Degree (Incomplete)**
Universidad Nacional de Rosario, Rosario, Argentina

## Internships

**2016 - 2017**

"Automatic Type-Driven Derivation of Random Value Generators for Common File Formats"
Keywords: functional programming, Haskell, metaprogramming, software testing, fuzzing, security bugs discovering.
Supervised by Gustavo Grieco and Martín Ceresa at CIFASIS.

## Publications

Journals

G. Grieco, M. Ceresa, A. Mista, P. Buiras:
*"QuickFuzz Testing for Fun and Profit"*
Journal of Systems and Software
Under revision (link to pre-print)

## Software Development

QuickFuzz

An experimental grammar fuzzer in Haskell using QuickCheck.

## Languages

Spanish

**Mother tongue**

English

Professional working proficiency

Portugese

Limited working proficiency

## Computer Skills

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|---|---|
| Programming Languages | Haskell, Java, Python, C/C++ |
| Specification Languages | Z, CSP, Statecharts, TLA+ |
| Proof Asistants | Z/Eves |
| Software Versioning Systems | Git, Subversion |
| Operative Systems | GNU/Linux, macOS, Windows |

## Academic Interests

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|---|---|
| Theory of Programming Languages | Functional Programming, Type Theory, Domain Specific Languages, $\lambda$-calculus. |
| Software Security | Automatic Software Testing, Data Flow Analysis, Cryptography. |
| Compilers | Embedded Hardware Compilers, Compiler Optimizations. |

## Courses

**Master's Degree in Computer Science**

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|---|---|
| First Year | Algebra and Analytic Geometry I (7) |
| | Algebra and Analytic Geometry II (7) |
| | Mathematical Analysis I (7) |
| | Mathematical Analysis II (9) |
| | Computer Programming I (10) |
| | Computer Programming II (9) |
| Second Year | Linear Algebra (6) |
| | Data Structures and Algorithms I (9) |
| | Formal Languages and Computabillity (8) |
| | Computer Architecture (9) |
| | Mathematical Complements I (10) |
| | Computer Logic (8) |
| Third Year | Operative Systems I (10) |
| | Data Structures and Algorithms II (8) |
| | Probability and Statistics (7) |
| | Programming Languages Analysis (8) |
| | Computer Networking (10) |
| | Physical Models (10) |
| | Databases Theory (10) |
| Fourth Year | Software Engineering I (8) |
| | Introdutction to Artificial Intelligence (9) |
| | Operative Systems II (10) |

## Additional Information

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| **Awards** | Bicentennial scholarship to the highest high school grade student, 2010. |
| **Personal interests** | Science Fiction, Electronics, Gastronomy. |