

Curriculum Vitae

Name: Miguel Eduardo Pinto da Silva

Place and date of birth: Porto (Portugal), 11th of November 1992

Nationality: Portuguese

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Education and training:

- (2016) MSc. in Computer Science, specialisation in Trustable Computing, at the Computer Science Department, Faculty of Science of the University of Porto, with final grade 18/20 (equal second among all concluded in 2016).
- (2014) BSc. in Computer Science in the Science Faculty of the University of Porto with final grade 17/20 (equal first among all concluded in 2014).
- (2012) Cambridge Certificate of Proficiency in English (CPE) with grade C (74/100).
- (2010) Cambridge Certificate of Advanced English (CAE) with grade B (79/100).
- (2010) Concluded high school with final grade 17/20. Main subjects: Mathematics, Physics & Chemistry, Biology & Geology, Portuguese, English.
- (2009) Cambridge First Certificate of English (FCE) with grade A (81/100).

Fellowships/Grants:

- (2/2020 until 04/2020) Research Internship at IBM Research UK, Daresbury campus.
- (9/2019 until 12/2019) Teaching Assistantship on the courses “Algorithms and Imperative Programming” and “Advanced Algorithms I”.
- (9/2018 until 12/2018) Teaching Assistantship on the course “Algorithms and Imperative Programming”.

- (2/2018 until 5/2018) Teaching Assistantship on the course “Algorithms and Imperative Programming”.
- (9/2017 until 9/2021) EPSRC grant for doctoral studies in the “Centre for Doctoral Studies in Computer Science” at the University of Manchester.
- (Spring 2017 Semester) Teaching Assistantship on the course "Data Structures".
- (10/2016 until 8/2017) Research grant "Models for the Analysis of Complex Networks", from INESC-TEC CRACS, under the Project NORTE-01-0145-FEDER-000020. Advised by Prof. Pedro Ribeiro.
- (7/2015 until 9/2015) Undergraduate Internship at Carnegie Mellon University supported by the program UIP of the Carnegie Mellon Portugal International Partnership, financed by FCT (Portuguese Foundation for Science and Technology), and hosted by Professor Frank Pfenning from CS Department.
- (2/2015 until 6/2015) Junior research grant "Random network generation with a given degree sequence or subgraph pattern signature", from INESC-TEC CRACS, under the Project NORTE-07-124-FEDER-000059. Advised by Prof. Pedro Ribeiro.
- (4/2013 until 7/2013) Junior research grant "Registry and authentication in web applications, using mobile devices", from INESC-TEC CRACS, under the Project PEst-C/EEI/LA0014/2011. Advised by Prof. Manuel Eduardo Correia.

Publications:

- Miguel Silva, Mário Florido and Frank Pfenning. **Non-Blocking Concurrent Imperative Programming with Session Types**. Proceedings of the 4th International Workshop on Linearity (LINEARITY'16), EPTCS volume 238, 2016. Available at www.dcc.fc.up.pt/~msilva/Pubs/linearity16.pdf
- Miguel Silva, Pedro Paredes and Pedro Ribeiro. **Network motifs detection using random networks with prescribed subgraph**

frequencies. Proceedings of the 8th Conference on Complex Networks (COMPLENET'17), 2017. Available at www.dcc.fc.up.pt/~msilva/Pubs/complenet17.pdf

MSc. Dissertation: Available at www.dcc.fc.up.pt/~msilva/MSc/thesis.pdf

Title: Non-Blocking Concurrent Imperative Programming with Session Types.

Programming Languages:

Advanced knowledge and experience with the following languages:

- C, C++ and Java
- Python
- R

Knowledge and basic experience with AMPL, Haskell, Prolog and Web Development Languages - HTML, CSS, Javascript.

Extra-curricular:

- Programming Contests: participated in MIUP 2014 (10th place), MIUP 2015 (Honourable Mention) and SWERC 2015 (33rd place).
- Attended Porto Winter School on Network Science (<http://netsci18.dcc.fc.up.pt/>).
- Volunteer in the organisation of the 1st International Conference on Formal Structures for Computation and Deduction, FSCD 2016 (fscd2016.dcc.fc.up.pt).
- Completed "Practical Time Series Analysis" course on Coursera (www.coursera.org/learn/practical-time-series-analysis).

Manchester, UK, 7 October 2019.