



Elena Gutiérrez

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Education

Ph.D. in Software, Systems and Computing	Univ. Politécnica de Madrid
With cum laude distinction	Sep. 2016 - Sep. 2020
Double Degree in Mathematics and Software Engineering	Univ. Autónoma de Madrid
Average grade: 8.2/10	Sep. 2011 - May. 2016

Work Experience

IMDEA Software Institute (<i>Instituto Madrileño de Estudios Avanzados</i>)	Madrid, Spain
Researcher (predoctoral researcher until Sep. 2020)	Sep. 2016 - present

National Institute of Informatics	Tokyo, Japan
<i>Erato MMSD (Metamathematics for System Design) Project</i>	May. 2019 - Nov. 2019
6-months research internship	

IMDEA Software Institute	Madrid, Spain
3-month research internships	summers 2013, 2014 and 2015

Computer Skills

- C, Python, Octave, Bash, Prolog, HTML, CSS | General experience
- C++, Java | Basic experience
- Git, LaTeX, Keynote
- Mac OS, Linux

Software Projects

- Genetic algorithm (in C) for the analysis of recurrent neural networks (2020). [GitHub](#)
- Optimization algorithm (in Prolog) for Horn clause programs (2016). [GitHub](#)

Ph.D. Thesis	<i>New Perspectives on Classical Automata Constructions</i>	Sep. 2020
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Courses and Certificates

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| ○ Course on Machine Learning by Andrew Ng - Coursera | Mar. 2020 - present |
| ○ School on Formal Verification - The Hebrew University (Jerusalem) | 17 - 21 Dec. 2017 |
| ○ TOEFL iBT Test score: 104/120 | Feb. 2016 |

Natural Languages	Spanish Native English Advanced French Basic
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Volunteer Work and Interests

- Soñar Despierto Foundation: Giving support lessons to high-school students coming from marginalised backgrounds in Madrid (Sep. 2018 - May. 2019)
- AFS Intercultura Spain: Participating in the coordination of intercultural activities with foreign students from exchange programs (Sep. 2011 - May. 2012)
- I love sports, especially running (medium: 10 km, and large distance: 21 km), cycling and paddle tennis.