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 & Software Engineering (360 ECTS)	Univ. Autónoma de Madrid
	Sep. 2011 - May. 2016

Work Experience

IMDEA Software Institute *(Instituto Madrileño de Estudios Avanzados)*	Madrid, Spain
Researcher (predoctoral researcher until Sep. 2020)	Sep. 2016 - present
National Institute of Informatics	Tokyo, Japan
Erato MMSD (Metamathematics for System Design) Project	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   *New Perspectives on Classical Automata Constructions*   Sep. 2020

Courses and Certificates

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

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.