

David **Davó** Laviña

RESEARCH ASSISTANT

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«A list is only as strong as its weakest link» – Donald E. Knuth

Summary

Research Assistant at Complutense University of Madrid, Spain. Currently pursuing a M.Sc in Artificial Intelligence. I've always liked computers, videogames, electronics, and anything that can spark or catch fire. I like both low-level languages like C or Assembly and high-level languages like Haskell. I like to explore new paradigms and learn new subjects, and I'd like to get to work researching and discovering new things.

Skills

Programming	English	Cambridge Advanced English (C1)
	Spanish	Native
	Japanese	JLPT N4
	Git, GitHub, GitLab	CI/CD
	IDE's	VIM, Eclipse, VSCode
Languages	Linux	User level
	Docker	Creating and deploying images
	Web	Apache, Nginx, Symfony, AWS
	DS	Pandas/Numpy/Matplotlib
	AI	PyTorch
Tools	TeX	Intermediate
	C/C++	Intermediate
	OOP	Java/Python
	Hardware	VHDL
	Scripting	Python/Bash
	Web	HTML/CSS/JS/PHP/SQL
	Declarative	Haskell/Prolog

Work experience

Research Assistant

GRASIA UCM

Madrid

Jan 2022 - Today

- Continuing the project started on the apprenticeship (see *Projects*)
- GRASIA: Research on Agent Based, Social and Interdisciplinary Applications
- Research and exploration of Decentralized Autonomous Organizations (DAOs)
- Development of data retrieval scripts and data dashboards (see **dao-analyzer**)

Education

M.Sc. in Artificial Intelligence

POLITECHNIC UNIVERSITY OF MADRID

Madrid, Madrid

2022-2023

- Master's Thesis (work in progress): Developing an Hybrid Recommender System with Graph Neural Networks for Participation Systems

B.Sc. in Computer Science

IT FACULTY, COMPLUTENSE UNIVERSITY OF MADRID

Madrid, Madrid

2017 - 2022

- Merit with distinction on the Final Degree Project (21/22): "Network on Chip implementation of a RISC-V processor"
- Merit with distinction on Algorithmic Methods in problem Solving (20/21)
- Merit with distinction on Artificial Intelligence (19/20)
- Merit with distinction on Computer Organization & Design (VHDL Programming) (18/19)
- Average mark of 8.42 over 10

Prizes and Honors

2022	Honours Degree , Final Degree Project <i>Complutense University of Madrid</i>	<i>Madrid</i>
2019	Scholarship , Max Mazín Prizes, VI Edition <i>Madrid Business Confederation (CEIM)</i>	<i>Madrid</i>
2019	Scholarship , Excellence Scholarship for University Students <i>Community of Madrid</i>	<i>Madrid</i>
2018	Scholarship , Max Mazín Prizes, V Edition <i>Madrid Business Confederation (CEIM)</i>	<i>Madrid</i>
2017	2nd Prize , II Pre-grad Meeting of Young Researchers <i>Complutense University of Madrid</i>	<i>Madrid</i>

Projects

Apprenticeship at GRASIA UCM

APPRENTICESHIP

Madrid
Sep 2021-Dec 2021

2021 Google Summer of Code student w/ Haskell.org

PARTICIPANT

Remote
Summer 2021

- Programming in Haskell fixing the module `ihaskell-widgets` from Jupyter's kernel IHaskell.
- Working with dependent types using the `Singletons` library

JustGetMyData.com

DEVELOPER

Madrid
2020-Curr.

- Web with Jekyll on GitHub Pages
- As seen about in media (Vice's Motherboard, Les Numériques, Protonmail...)

Simkl TV Tracker

3RD PARTY DEVELOPER

Remote
2016-2019

- Creation of add-ons to auto-scrobble a TV Show or Movie to Simkl
- Kodi version on Python3 (2016-2017) and Emby version on C# (2018-2019)

InvProy α : A Network Simulator for and by students

DEVELOPER

Madrid
Sep 2015 - Feb 2017

- Part of the "Baccalaureate of Excellence" program
- Code on Python3, Gtk+ GUI, report written in LaTeX
- Winner of the 2nd Pre-grad Meeting of Young Researchers at UCM (2017)

Extracurricular Activities

OTEA: Office of Free Software and Open Technologies

COLLABORATOR

TI Vice-chancellor, UCM
2018 - Curr.

- "Cool Workshops": Using \LaTeX , Apollo Guidance Computer: User Mode & Programming, Video Editing with KDenlive
- Penguin On Tour: Linux Install Parties
- Organization & speaker at Cryptoparty Madrid (Data destruction, History of Hacking)

FDIst: FDI Security Team

COLLABORATOR

FdI, UCM
2017 - 2021

- Organization of computer worms competition "Corewar FDI" with finals at AULA (IFEMA).
- Vulnerabilities report of UCMs network
- Phishing campaign to advertise Cryptoparty, using ucrn.es

ASCII: Sociocultural Association of Computer Engineers

ASSOCIATION BOARD

FdI, UCM
2017 - 2020

- Organisation of Gamersparty, charity event in name of Madrid's Food Bank
- Creation of web-pages and web-servers in collaboration with OTEA, FDIst and Cryptoparty