Eric Roy-Almonacid

Teacher and full-stack dev
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I am currently a masters student doing research on game theory for optimization techniques for games with ordered preferences. I concurrently work at Codelearn as a full-stack developer, while also teaching some undergraduate courses at Universitat Politècnica de Catalunya (UPC). I seek to learn more about robotics to apply my current research work in game theory for multiagent systems to the physical world.

EDUCATION

2024–   MSc in Machine Learning & Cybersecurity, Universitat Politècnica de Catalunya (UPC)

2020–24   BSc in ICT Systems Engineering, Universitat Politècnica de Catalunya (UPC)

EXPERIENCE

2024–   Universitat Politècnica de Catalunya (UPC)
           Teacher

           Taught courses on programmable devices (assembler) and applications and services on the internet to BSc students.

           Codelearn S.L.
2021–   Full-stack developer

           Maintaining and enhancing a gamified web platform where kids can learn coding and computational thinking skills. One of the key tasks consists of integrating external games or platforms (both physical and online) to our infraestructure.

2020–21   Programming teacher

           Introduced kids into computational thinking. This includes programming, robotics, electronics and video games, using both educative and state-of-the-art tools.

INVITED TALKS

2025   Games of ordered preferences - Iowa State University

OPEN SOURCE CONTRIBUTIONS

Skulpt, a Javascript implementation of the Python programming language. I improved the *turtle* library.

Translations of many projects, e.g. Rails-Admin, Rails-Translate.

Own projects. Some examples: BSc thesis, tutorials & walkthroughs, wrappers, extensions, websites.

Minor contributions to: HomeAssistant, Pyrandr, lib_iio, Ubiquo.

REFERENCES

Georgios Bakirtzis, Assistant Professor
Télécom Paris & Institut Polytechnique de Paris
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Relationship: MSc thesis advisor

David Fridovich-Keil, Assistant Professor
The University of Texas at Austin
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Relationship: Research collaborator