

Xavier Juanola Molet

PHD CANDIDATE

Universitat Pompeu Fabra, Carrer Tànger 122-140, Barcelona, 08018

✉ xavier.juanola@upf.edu | 🏠 xavijuanola.github.io | 🌐 xavijuanola

Education

PhD in Information and Communication Technologies

Barcelona

UNIVERSITAT POMPEU FABRA

Nov 2022 - present

- Advisor: Dr. Gloria Haro

MS in Astrophysics and Cosmology

Barcelona

UNIVERSITAT AUTÒNOMA DE BARCELONA

Sept 2020 - Jul 2021

- MS Thesis Advisor: Dr. Enrique Gaztañaga

MS in Intelligent Interactive Systems

Barcelona

UNIVERSITAT POMPEU FABRA

Sept 2019 - Jul 2020

- MS Thesis Advisor: Dr. Ana Freire

BS in Theoretical Physics

Barcelona

UNIVERSITAT DE BARCELONA

Sept 2014 - Sept 2019

- BS Thesis advisor: Dr. Eduard Salvador

Professional Experience

Visiting Scholar

New York

NEW YORK UNIVERSITY

2024

- Visiting scholar at NYU's MARL, collaborating with Magdalena Fuentes on sound localization research, culminating in an ICASSP publication.

Data Scientist

Barcelona

SCHNEIDER ELECTRIC

2021-2022

- Led predictive modeling using Salesforce data to assess offer acceptance probabilities, contributed to AI conversational agent development, and served as a global AI consultant.

Data Scientist / Business Intelligence

Barcelona

DRIVING01

2021

- Developed machine learning predictive models for various enterprises (Chupa Chups, COMSA Service, and real estate) and created Power BI reports to help clients understand their data and make informed decisions.

Artificial Intelligence Engineer / NLP Engineer

Barcelona

DRIVING01

2019-2021

- Developed AI conversational agents for real estate and Liceu, leveraging NLP and neural networks for QA and booking processes with domain-specific training.

Publications

Xavier Juanola, Giovana Morais, Magdalena Fuentes, Gloria Haro. Learning from Silence and Noise: Audio-Visual Source Localization with Negative Audio, *BMVC*, 2025 (*Under revision*).

Xavier Juanola, Gloria Haro, Magdalena Fuentes. A Critical Assessment of Visual Sound Source Localization Models Including Negative Audio, *ICASSP*, 2025.

Xavier Juanola, Gloria Haro. A Brief Analysis of SLAVC method for Sound Source Localization. *IPOLE MLBriefs*, 2024.

Workshops and Presentations

Oral Presentation. Visual Sound Source Localization: Assessing Performance with Both Positive and Negative Audio, *Sight and Sound 2025 (CVPR Workshop)* (<https://sightsound.org/>).

NYU, 2024., A Critical Assessment of Visual Sound Source Localization Models Including Negative Audio.

Poster Presentation. A Critical Assessment of Visual Sound Source Localization Models Including Negative Audio, *SANE 2024* (<https://www.saneworkshop.org/sane2024>).

Paris Saclay, 2023., Brief Analysis of SLAVC method for Sound Source Localization. *IPOL MLBriefs*

Service

Organizing Committee. *LAMIR 2024* (<https://lamir-workshop.github.io>).

Hackathon Organization. *LAMIR 2024* (<https://lamir-workshop.github.io>).

Reviewer. *LAMIR 2024* (<https://lamir-workshop.github.io>).

Teaching Experience

UPF
Barcelona **Calculus II (23952)**, Teaching Assistant of Labs & Seminars

Jan-March 2025
Jan-March 2024
Jan-March 2023

Research Projects

2021-
Present **MuVAU: Multimodal Video Analysis and Understanding.** PID2021-127643NB-I00,
Ministerio de Ciencia, Innovación y Universidades, PI: G. Haro, Co-PI: C. Ballester, 2022 -
2024, 92,686.00 e. (*Spanish Government Scholarship*)

Grants

2023-
present **FPI doctoral scholarship**, Ministerio de Ciencia, Innovación y Universidades

References

Gloria Haro
ASSOCIATE PROFESSOR
• Email: gloria.haro@upf.edu

Universitat Pompeu Fabra

Magdalena Fuentes
ASSISTANT PROFESSOR
• Email: mfuentes@nyu.edu

New York University