

Santiago Jimenez-Navarro

PhD Candidate in Computer Science

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EDUCATION

PhD Program in Computer Science

Mar/24 — Present

University of Zaragoza, Spain
Thesis supervised by Prof. [Ana Serrano](#) and Prof. [Belen Masia](#) ([Graphics and Imaging Lab](#)), titled Perceptually-informed Material Appearance Modeling and Editing, funded by a competitive scholarship from the Aragon Government (DGA)

Master Program in Robotics, Graphics and Computer Vision

Sep/22 — Feb/24

University of Zaragoza, Spain
Master thesis: [Learning Interpretable Representations of Material appearance](#), graded with a 9.5 (out of 10) with honors, and funded by a scholarship from the Aragon Institute for Engineering Research (I3A)

BSc in Computer Science

Sep/18 — Jun/22

University of Zaragoza, Spain
Final degree project: [Audiovisual Saliency Prediction in 360° Content](#), graded with a 9.6 (out of 10), and awarded by the Santander Bank as the [third best](#) in the field of engineering and architecture

PUBLICATIONS

Style-Aware Gloss Control for Generative Non-Photorealistic Rendering

2026

[S. Jimenez-Navarro](#), B. Masia, A. Serrano
Computers & Graphics (Elsevier) - doi.org/10.1016/j.cag.2026.104715, [website](#), [preprint](#)

A Controllable Appearance Representation for Flexible Transfer and Editing

2025

[S. Jimenez-Navarro](#), J. Guerrero-Viu, B. Masia
Eurographics Symposium on Rendering (EGSR) - doi.org/10.2312/sr.20251187, [website](#), [preprint](#)

RESEARCH EXPERIENCE

MSc Research Internship

Feb/23 — Jun/23

Professional internship on the subject *Disentangled latent representations of material appearance with unsupervised learning*, within the Graphics and Imaging Lab

BSc Research Internship

Dec/21 — Mar/22

Professional internship on the subject *Audiovisual saliency prediction in 360° content*, within the Graphics and Imaging Lab

TECHNOLOGIES AND INTERESTS

Core Programming Languages

- **Advanced:** Python, C++
- **Intermediate:** MATLAB, C
- **Familiar:** Java, Go, HTML, Assembly

ML & Data Tools

- PyTorch, TensorFlow, NumPy, Matplotlib

Tools

- Git
- LaTeX
- Inkscape
- Photoshop
- Google ecosystem

Interests

- [Machine Learning for Visual Understanding](#): unsupervised learning, representation learning, diffusion models, vision-language models (VLMs), multimodal large language models (MLLMs), interpretable and explainable AI
- [Material Appearance Perception and Editing](#): human vision, perceptual modeling, intuitive appearance manipulation
- Computer Graphics, Computer Vision, Computational Imaging

AWARDS

- PhD Scholarship** 2025
Highly competitive scholarship by the Aragon Government (DGA) to fully fund 4 years of doctoral studies
- Master Thesis Scholarship** 2023
Scholarship for funding the development of my Master Thesis, awarded by the Aragon Institute for Engineering Research
- Third Best Final Degree Project in the Field of Engineering and Architecture** 2023
Awarded by the Santander Bank
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TEACHING AND SUPERVISION

- Measuring Material Appearance Similarity: Analysis of a Learning-based Metric** Feb/25 — Jul/25
Ming Tao Ye - BSc Thesis in Computer Science
Grade: 9.7 (with honors)
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PROFESSIONAL SERVICE

- Reviewer**
- SIGGRAPH 2026 (Poster Track)
 - Eurographics 2026
 - Computers & Graphics 2026
 - Scientific Reports 2026
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RESEARCH ACTIVITIES

- EGSR 2025 Oral Talk** 2025
Oral presentation of our work *A Controllable Appearance Representation for Flexible Transfer and Editing*
- Machine Learning Summer School** 2025
Attended the 8th Advanced Course on Data Science & Machine Learning ([ACDL2025](#)) summer school, with lecturers from institutions such as Princeton University, Google DeepMind, EPFL, Stanford University, or Google Research
- Poster Presentation** 2024
XIII Young Researchers' Day, University of Zaragoza
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DISSEMINATION

- European Researchers' Night** 2024, 2025
Dissemination activity in which we present our research projects to the local community, including assistants of all ages and backgrounds
- Young Researchers' Day**
Presented our poster on *Aprendizaje no Supervisado de Representaciones Interpretables y Desenredadas de la Apariencia de Materiales* in an event organized by the Aragon Institute for Engineering Research (I3A)
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LANGUAGES

- Spanish:** Native
- English:** Fluent 2020
• Cambridge English Level 2 Certificate in ESOL International (CAE, C1)
- Japanese:** Upper Intermediate 2025
• 日本語能力試験 (Japanese Language Proficiency Test, JLPT) N2
- French:** Intermediate