Santiago Jimenez-Navarro

PhD Candidate in Computer Science

s.jimenez@unizar.es santiagojn santiagojn.github.io santiagojn

EDUCATION

PhD Program in Computer Science **03/24 — 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 **09/22 — 02/24**
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 **09/18 — 06/22**
University of Zaragoza, Spain
Final degree project: Audiovisual Saliency Prediction in 360º 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
Under Review - 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 **02/23 — 06/23**
Professional internship on the subject *Disentangled latent representations of material appearance with unsupervised learning*, within the Graphics and Imaging Lab

BSc Research Internship **12/21 — 03/22**
Professional internship on the subject *Audiovisual saliency prediction in 360º 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

June 2026

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

TEACHING AND SUPERVISION

Measuring Material Appearance Similarity: Analysis of a Learning-based Metric **02/25 — 07/25**
Ming Tao Ye - BSc Thesis in Computer Science
Grade: 9.7 (with honors)

PROFESSIONAL SERVICE

Reviewer

- SIGGRAPH 2026 (Poster Track)
- Eurographics 2026
- Computers & Graphics 2026

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

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)

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