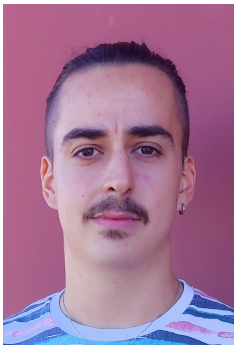

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Spain

Pablo Luesia-Lahoz

PhD Candidate at Graphics and Imaging Lab, Universidad de Zaragoza (Spain)

Education

2021 - Present ***Universidad de Zaragoza, PhD candidate***

PhD candidate supervised by Adolfo Muñoz and Diego Gutierrez. On computer graphics, computational imaging, Non-Line-of-Sight imaging, and transient imaging.

2019 - 2020 ***Universidad de Zaragoza, Master's Degree***

Master's Degree in Computer Engineering. Average grade: 8.25 out of 10

2014 - 2018 ***Universidad de Zaragoza, Bachelor's Degree***

Bachelor's Degree in Computer Engineering with a major in Computing. Average grade: 7.64 out of 10

Research Experience

Apr 2024 - Jul 2024 ***University of Wisconsin-Madison, International Internship***

International internship under the supervision of prof. Andreas Velten at the University of Wisconsin-Madison, and in collaboration with the Computational Optics Group. The research focuses on pushing the boundaries of NLOS imaging for looking around corners.

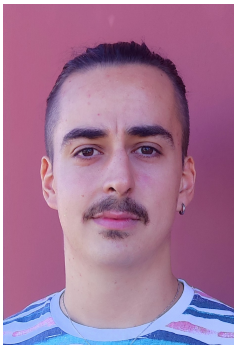
Nov 2021 - Present ***Graphics & Imaging Lab (Universidad de Zaragoza - I3A), PhD candidate***

PhD candidate under the supervisor of Prof. Adolfo Muñoz and Prof. Diego Gutierrez. The research focuses on transient illumination, looking around corners, and virtual wave optics.
Funded by *Ministerio de Ciencia e Innovacion (Gobierno de España)* with the competitive grant FPI 2020.
Taught 120 hours of teaching to undergraduate students with highly positive assessment (4.54 out of 5).

Jan 2021 - Jun 2021 ***Universidad de Zaragoza, Research project collaboration***

E. Coli bacteria simulation for the production of citramalate in the *Instituto Universitario de Investigación en Ingeniería de Aragón (I3A)*.
Detailed achievements:

- Learned how to use a cluster for heavy simulations.
- Acquired experience with the design and implementation of virtual cell models.



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Sep 2019 - Dec 2020 ***Universidad de Zaragoza, Research Project Internship***

Design and implementation of a system for the automatic analysis of the drone sperm cells of drones (honey bees).
Funded by a competitive scholarship granted by the *Gobierno de Aragon*, in the *Instituto Universitario de Investigación en Ingeniería de Aragón (I3A)* for the Master Thesis Project.

Publications

Journals

JCR Q1 **Non-line-of-sight in the presence of scattering media**
Pablo Luesia, Miguel Crespo, Adrian Jarabo, and Albert Redo-Sanchez
Optics Letters 47.15 (2022): 3796-3799.
DOI: https://doi.org/10.1364/OL.463296

JCR Q1 **Cohesive framework for non-line-of-sight imaging based on Dirac notation**
Albert Redo-Sanchez, Pablo Luesia-Lahoz, Diego Gutierrez, Adolfo Muñoz
Optics Express 32.6 (2024): 10505-10526.
DOI: https://doi.org/10.1364/OE.518466

Conference

Core B **Zone Plate Virtual Lenses for Memory-Constrained NLOS Imaging**
Pablo Luesia-Lahoz, Diego Gutiérrez, and Adolfo Muñoz
ICASSP 2023 - 2023 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Rhodes Island, Greece, 2023, pp. 1-5
DOI: https://doi.org/10.1109/ICASSP49357.2023.10094929

Teaching and Supervision

Teaching

2022 - Present ***Computer Graphics***

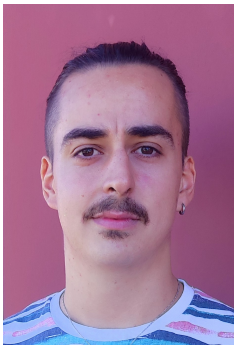
Degree on Computer Sciences Engineering. Outstanding positive assessment by the students.

2024 - Present ***Fundamentals of Computing***

Master on Robotics, Graphics and Computer Vision.

2022 - 2024 ***Fundamentals of Computing***

Degree in Industrial Technology Engineering.



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Former students

2024 ***Jorge Solán Morote***

Bachelor thesis. "Simulation of ultra-fast photon capture hardware in light transportation.” Graded with a 9 out of 10.

2023 ***Isaac Velasco***

Internship “Geometry optimization using normal information in Non-Line-of-Sight imaging”.

2023 ***Ayush Gupta***

Internship “Evaluation of the Fourier components in a Transient Signal”.

Divulgation activities

8-11 Aug 2022 ***Assistance to ACM SIGGRAPH 2022***

Presentation of the poster "Non-line-of-sight Transient Rendering".

30 Sep 2022 ***European Researchers’ Night***

Divulgation experiments for a general public of all ages: "Create your own virtual character".

15 July 2023 ***XII* Jornada de Jóvenes Investigadores/as**

Presentation of the poster "Zone Plate Virtual Lenses for Memory-Constrained NLOS Imaging".

29 Sep 2023 ***European Researchers’ Night***

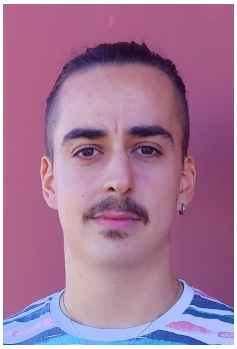
Divulgation experiments for a general public of all ages: "Create your own virtual character", "Learn about Virtual Reality", and "How is color composed?".

18-22 Mar 2024 ***XV Engineers Week***

Divulgation activities for a high-school public to present the research of the Graphics & Imaging lab.

20 Mar 2024 ***XII Aragon Girls’ Day***

Divulgation activities from in collaboration with the Graphics & Imaging lab to a high-school-aged public focused on making visible the researcher women.



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Volunteer Experience

2014 - present ***Aragón (Spain), Free Time Monitor***

Experience in camps with kids from 8 to 16 years old. Approved Free Time Monitor Title by the Instituto Aragones de la Juventud (IAJ), in Spain.

Other interest data

Programming languages

- Java
- C++
- Python
- Matlab
- Haskell
- ProLog

Languages

- **Spanish** Mother language
- **English** Advanced (CERT C1 certificate emitted by the British Council with the Aptis ESOL)
- **French** Basics

Mobility

- Erasmus stay in Sweden for 6 months (Jan 2019 - Jun 2019).
- Internship in Madison (Wisconsin) for 3 months (May 2024 - July 2024).

Interests

Professional

Research in the computational imaging field, transient luminescence and rendering, non-line-of-sight and virtual wave optics

Personal

Cooking, rock climbing, reading, guitar, drawing