

Luesia-Lahoz, Pablo



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ORCID

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Address

C. de Mariano
Esquillor Gómez,
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Spain

Pablo Luesia-Lahoz

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

Education

2021 - Universidad de Zaragoza, *PhD candidate*

Present

PhD candidate supervised by Adolfo Muñoz and Diego Gutierrez. On computer graphics, computational imaging, Non-Line-of-Sight imaging, and transient imaging. 175 hours of experience in teaching undergraduate and master's students with a highly positive assessment.

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

2020

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

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

2018

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

Research Experience

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

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.

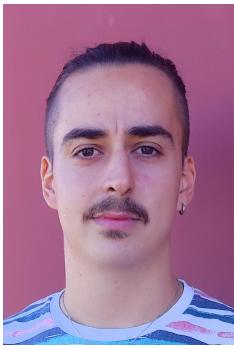
Nov 2021 - *Graphics & Imaging Lab (Universidad de Zaragoza - I3A), PhD candidate*
Present

PhD candidate under the supervision 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 Innovación (Gobierno de España)* with the competitive grant FPI 2020. *Taught 175 hours of teaching to undergraduate students with a highly positive assessment.*

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

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

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 Aragón*, 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

Experience in 175 hours at the University of Zaragoza (*Universidad de Zaragoza*):

2022 - Computer Graphics (158 hours)

Present

Degree on Computer Sciences Engineering. Received an outstanding positive assessment from the students.

2024 - Fundamentals of Computing (7.5 hours)

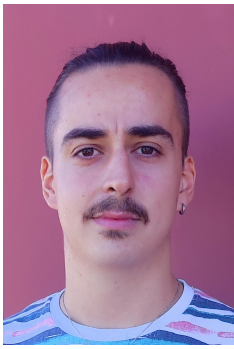
Present

Master on Robotics, Graphics and Computer Vision in the University of Zaragoza *Universidad de Zaragoza*. Received an outstanding positive assessment from the students.

2022 - Fundamentals of Computing (10 hours)

2024

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".

Divulcation activities

8-11
2022

Aug Assistance to ACM SIGGRAPH 2022

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

30
2022

Sep European Researchers' Night

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

15
2023

July XII Jornada de Jóvenes Investigadores/as

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

29
2023

Sep European Researchers' Night

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

18-22
2024

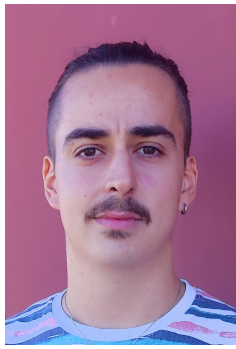
Mar XV Engineers Week

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

20
2024

Mar XII Aragon Girls' Day

Divulcation 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 - Aragón (Spain), Free Time Monitor
present

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
- Python
- Haskell
- C++
- Matlab
- 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