

Luesia-Lahoz, Pablo



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#### Address

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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.

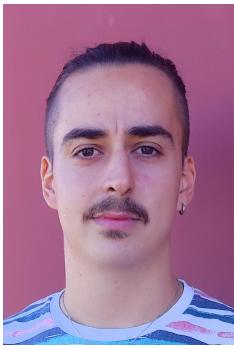
**Nov 2021 -** *Graphics & Imaging Lab (Universidad de Zaragoza - I3A), PhD candidate*  
**Present**

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>
- Core B** **Zone Plate Virtual Lenses for Memory-Constrained NLOS Imaging**  
Pablo Luesia-Lahoz, Talha Sultan, Forrest B. Peterson, Andreas Velten, Diego Gutierrez, Adolfo Muñoz  
2025 IEEE International Conference on Computational Photography (ICCP), Toronto, ON, Canada, 2025, pp. 1-9  
DOI: <https://doi.org/10.1109/ICCP64821.2025.11143850>

## Teaching and Supervision

### Teaching

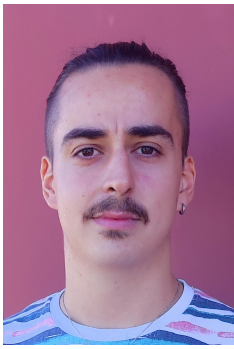
Experience in 175 hours at the University of Zaragoza (*Universidad de Zaragoza*):

**2022** - **Computer Graphics (158 hours)**  
**2025**

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

**2024** - **Fundamentals of Computing (7.5 hours)**  
**2025**

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



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**2022** - *Fundamentals of Computing (10 hours)*  
**2024**

Degree in Industrial Technology Engineering

#### 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 Aug 2022** *Attendance to ACM SIGGRAPH 2022*

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

**30 Sep 2022** *European Researchers' Night*

Divulcation 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*

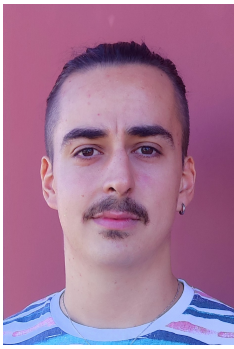
Divulcation experiments for a general public of all ages: "Create your own virtual character", "Learn about Virtual Reality", and "How is color composed?".

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

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

**20 Mar 2024** *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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## 21-23 July 2025 *Presentation in ICCP conference*

Attendance and presentation of our work "Zero-Phase Phasor Fields for Non-Line-of-Sight Imaging" in the 2025 IEEE International Conference on Computational Photography (ICCP) held in Toronto, ON, Canada.

## 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

- |                  |   |
|------------------|---|
| ○ <b>Spanish</b> | Mother language   |
| ○ <b>English</b> | Advanced (CERT C1 certificate emitted by the British Council with the Aptis ESOL) |
| ○ <b>French</b>  | 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