Luesia-Lahoz, Pablo

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p-luesia.github.io

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C. de Mariano
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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

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

PhD candidate under the supervisor of prof. Adolfo Muñoz and prof. Diego Gutierrez. The topic of the research is related to 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)*.
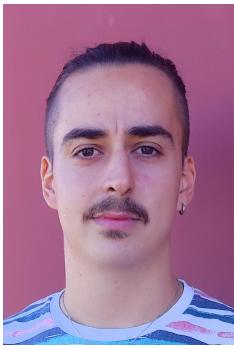Detailed achievements:
- Learned how to use a cluster for heavy simulations.
- Acquired experience with the design and implementation of virtual cell models.

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

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.

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Publications

Journals

May 2022   **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`

Mar 2023   **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

May 2023   **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`

Divulgation activities

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

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

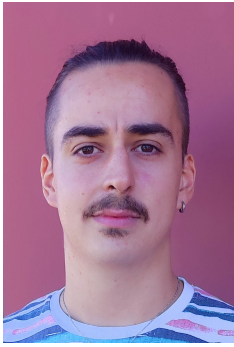**30 Sep 2022**   *European Researchers' Night*

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?".

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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