

CURRICULUM VITAE

Anna I. Garrigues-Navarro

PERSONAL INFORMATION

Full name: Ana Isabel Garrigues Navarro

Date of Birth: February 9, 2001 (age 24)

Email Address: ana.i.garrigues@uv.es

EDUCATION

2028 Ph.D., Photonics, Universitat de València, Spain.

2024 M.Sc., Advanced Physics, Universitat de València, Spain.

2023 B.Sc., Physics, Universitat de València, Spain.

EMPLOYMENT

2024-28 **Ph.D. Fellow**, University Institute of Material Science, Universitat de València.

2024 **Research Assistant**, Laboratory of Fiber Optics, Universitat de València.
Competitively awarded research contracts in the framework of the projects:
Optomechanical based biosensors: Life, light and sound. (CPI-24-365)
Optical fiber optomechanical sensors for ecologic transition. (CPI-23-799)

2023 **Research Intern**, Laboratory of Fiber Optics, Universitat de València.
Project: Acoustic waves in optical fibers and microcavities.
(PID2019-104276RB-I00)

ACADEMIC PUBLICATIONS

JOURNAL ARTICLES:

2025 Anna I. Garrigues-Navarro, Martina Delgado-Pinar, Antonio Díez, Miguel V. Andrés, *'Characterization of FSBs radial acoustic modes in short optical fibers with an all-fiber ring resonator'*, Journal of Lighthwave Technologies.
10.1109/JLT.2025.3567858

GRANTS, AWARDS

2025 Javier Pelayo's award to the best student contribution at OPTOEL25 in the 'Theory and Fundamentals – Optical fibers' category

2025 Catalan Society of Physics' Jordi Porta i Jué master thesis prize.

2024 Generalitat Valenciana's predoctoral fund. (99,590€, granted and accepted).
Grant ID: CIACIF/2023/418.

2023 Awarded for the best outreach adaptation of a physics undergraduate dissertation. In the academic year 22/23, University of València.

2023	Grant for research collaboration funded by Universitat de València. (1,000€, granted and accepted).
2022	OPTICA Women scholar's grant. (International 20 grants every year, 10.000\$, granted and accepted).

INVITED TALKS

2024	'Novel forward Brillouin scattering measurement technique based on a high-Q fiber ring resonator', <i>European Optical Society Annual Meeting, EOSAM</i> , Naples, Italy. 10.1051/epjconf/202430910006
2024	'Light, sound and their interplay. A (fiber) ring to measure them all', <i>Escola Erasmus d'Estiu de Física [Erasmus Physics Summer School] (E3F)</i> , València, Spain.
2022	'What does a physics student do outside the library?', <i>Escola Erasmus d'Estiu de Física [Erasmus Physics Summer School] (E3F)</i> , València, Spain.

CONFERENCE ACTIVITY

CONFERENCES ORGANISED

2025	<i>Erasmus d'Estiu de Física [Erasmus Physics Summer School] (E3F)</i> , University of València, Spain.
2024	<i>Latin American Workshop on Optical Fiber Sensors (LAWOFS)</i> , Universidade Estadual de Campinas, Campinas, Brazil.
2024	<i>Mediterranean Meeting of Young Researchers in Optics (IM2YRO)</i> , Universitat de València, Spain.
2023	<i>II Workshop of Women, Optics & Photonics</i> , Spanish Society of Optics, University of Salamanca, Spain.

ORAL PRESENTATION

2025	'High-efficiency interrogator for FSBS mechanical vibrations in optical fibers', <i>CLEO-Europe/EQEC</i> , Munich, Germany.
2024	'Nested opto- and mechanical resonators for an all fiber, frequency encoded, mass balance proposal.', <i>Spanish National Optics Reunion (RNO)</i> , Murcia, Spain.
2024	'All-fiber optomechanical cavity as a mass sensor.', <i>Latin American Workshop of Optica Fiber Sensors (LAWOFS)</i> , Campinas, Brazil. 10.23919/LAWOFS62242.2024.10560943

POSTER PRESENTATION

2025	'Multipoint strain sensing based on optomechanical interaction in optical fibers', <i>National Optoelectronics Reunion (OPTOEL)</i> , Terrassa, Spain.
------	--

- 2025 'Multipoint measurement of strain using FSBS induced acoustic mode resonances', *Optical Fiber Sensors (OFS)*, Porto, Portugal. 10.1117/12.3061907
- 2023 'Analysis of the frequency response of a dynamically modulated, high Q, optical fiber ring resonator', *National Optoelectronics Reunion (OPTOEL)*, Sevilla, Spain. 10.12795/9788447225507
- 2021 'New OPTICA Student Chapter in València: Photonets UV', *Spanish National Optics Reunion (RNO)*, Online.

PAPERS PRESENTED (Not as first author)

- 2025 'Forward Stimulated Brillouin Scattering for point-to-point sensing and metrology', IEEE ICTON, Barcelona, Spain. (Invited)
- 2024 'SEDOPTICA-MOF: visibilizing women researchers', *Spanish National Optics Reunion (RNO)*, Murcia, Spain. (Poster)
- 2024 'Lluminària: An outreach magazine crafted by students for students', *Spanish National Optics Reunion (RNO)*, Murcia, Spain. (Oral presentation)
- 2024 'Photonets UV: What can a student chapter do to spread knowledge of the optical sciences?', *Spanish National Optics Reunion (RNO)*, Murcia, Spain. (Oral presentation)

SCHOOLS ATTENDANCE

- 2025 *II Women Scholars Conference*
OPTICA Foundation. 10 hours duration.
- 2024 *I Women Scholars Conference*
OPTICA Foundation. 10 hours duration.
- 2023 *Siegman International School on Lasers*,
University College Dublin, Ireland. (100 students elected each year)
- 2023 *Spanish national meeting of physics' Students (ENEF)*
Spanish Royal Society of Physics, Spain.

SPECIALTY COURSES AND WORKSHOPS

- 2025 *Random Lasers Course*, Prof. Rosa Ana Pérez Herrera
Public University of Navarra, Spain. 6 hours duration.
- 2025 *Science Lean Canvas workshop*,
Technology transfer and innovation strategies. 5 hours.
- 2024 *Fiber Optics & Signal Processing Reunion*,
University of València, Spain. 10 hours duration.
- 2023 *Fiber Optics & Signal Processing Reunion*,
University of València, Spain. 10 hours duration.

- | | |
|------|---|
| 2023 | <i>Introduction to materials and nanomaterials workshop</i>
University of València, Spain. |
| 2022 | <i>Fiber Optics & Signal Processing Reunion,</i>
University of València, Spain. 10 hours duration. |

PARTICIPATION AND RESPONSABILITIES IN SCIENTIFIC SOCIETIES

- | | |
|----------------|---|
| 2023 - 2025 | GdE- RSEF - Student group of the <i>Royal Spanish Society of Physics</i>
Part of the IT Committee. In charge of the internships database and SENSEI Program. |
| 2022 - PRESENT | Sedoptica-MOF – Women in Optics and Photonics
Committee member at the <i>Spanish Society of Optics and Photonics</i> |
| 2020 - PRESENT | Photonets UV – OPTICA Student Chapter
2024 – 2025 Treasurer
2023 – 2024 President
2021 – 2023 Vice-president
Outreach activities to broad audiences. Writing outreach articles at <i>Lluminària</i> (outreach magazine). |

NON-ACADEMIC PUBLICATIONS

- | | |
|--------|--|
| BOOKS: | |
| 2024 | <i>'Voces Brillantes: Expertas en Óptica y Fotónica'</i> [<i>Brilliant Voices: Experts in Optics and Photonics</i>], co-authored with Pilar Granados-Delgado and Ana Isabel Gómez Varela. West Indies, pp. 1-308. ISBN: 978-9916-9819-9-3. |