Iraklis Sarigiannidis

Born in November 24th, 1997.
Katerini, Greece
Currently pursuing a PhD in Siena, Italy.

Mail
LinkedIn

Scientific interests

- Electromagnetic fields
- Wave propagation and scattering
- High frequency techniques
- Computational electromagnetics

Numerical tools

- Matlab
- Python
- C++

Commercial software

- CST Microwave Studio
- Ansys HFSS
- Altair Feko

Languages

- Greek (native speaker)
- English (B2 Edexcel)
- French (B1 Sorbonne University)
- Italian (A2 University of Siena)

Skills

- Academic training, research and teaching
- LaTeX typesetting and publication

Education

- **International joint PhD supervision** (Dec 2022 – Dec 2025)

  ED SMAER 391, L'école doctorale Sciences Mécaniques, Acoustique, Électronique, et Robotique de Paris.

  - GeePs laboratory Science Sorbonne University (Dec 2022 – Sept 2024)
  - Laboratory of applied electromagnetics University of Siena (Sept 2024 – Dec 2025)

  High frequency techniques for determing the diffraction coefficients of general shaped cones.

- **Master 2 WaveWiCom** (Sept. 2022 – Dec 2022)

  Waves and Devices for Advanced Wireless Communication Systems
  Science Sorbonne University

- **Master Thesis** (Sept. 2020 –Dec. 2021)

  Electromagnetic Scattering (Grade 10/10)

  Bisphere monostatic scattering cross section.

- **Integrated Master's Degree** (Dec. 2018 – Sept. 2020)

  Specialization area **Telecommunications**
  Aristotle University of Thessaloniki

- **Electrical and Computer Engineering** (Sept. 2015 – Dec. 2018)

  (Overall grade: 8.99/10 Excellent, Total ECTS: 329)
  Aristotle University of Thessaloniki

Employment History

- **Researcher Assistant** (Feb. 2022 – Sept. 2022)

  Remote sensing for characterizing forest and rural road network.

  Visual Computing Lab, CERTH/ITI, collaboration: kartECO, School of Forestry and Natural Environment AUTH

- **Bioengineering Intern** (Mar. 2020 – Jun. 2020)

  Advanced processing for spike sorting of neural activity.

  NextGrowth Novelty Corporation, collaboration: Medical School AUTH.

Scholarships

- Awarded the **Franco-Hellenic Cooperation Scholarship 2022–2023** for Master 2 Studies in France. (Sept. 2022 – Dec. 2022)

• Awarded **PhD public funding** in France through the ED SMAER 391 competition. (Dec. 2022 – Dec. 2025)

Research Publications

Journal Articles

• **COMPEL, Emerald group publishing** *Under review*

Integral Equation Numerical Approach for the Determination of Diffraction Coefficients from Generally Shaped Cones.

Conference Proceedings

• **ICEEA Venice, Italy** (09 – 13 Oct. 2023)

Conference presentation and abstract paper publication

A Hybrid Analytical-Numerical Approach for the Calculation of the GTD Diffraction Coefficient for Diffraction at the Tip of an Arbitrary Section Cone.

• **Numelec Toulouse, France** (08 – 10 Jul. 2024)

Conference poster and paper publication

Integral Equation Numerical Approach for the Determination of Diffraction Coefficients from Generally Shaped Cones.

• **EuCAP Stockholm, Sweden** (30 Mar. – 04 Apr. 2025) *Under review*

Conference presentation and paper publication

Near-Field Acoustic Scattering of Arbitrarily Shaped Cones.

Miscelaneous Experience

• **European Microwave Week Berlin, Germany** (17 – 22 Sept. 2023)

Volunteering and participation

• **European School of Antennas**

▷ Sorbonne University (25 – 28 Sept. 2023)

Exploiting symmetries in artificial materials for antenna applications.

▷ University of Siena (30 Sept. – 4 Oct. 2023)

Reconfigurable intelligent surfaces for smart radio environment.

• **Speaking in public seminar**

▷ Sorbonne University (15 – 16 Apr. 2024)

Last updated : décembre, 2024.