

Curriculum Vitae

Personal Information

Name: Symeon I. Tsintzos

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Date of birth: 20 November 1979

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- 2) Foundation for Research & Technology Hellas (FORTH), Inst. of Electronic Structure and Laser (IESL), Microelectronics Research Group (MRG)

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Positions

- **01/07/2018- Today: Scientist Engineer**

Eulambia Advanced Technologies LTD.

- **1/07/2018-Today: External Associate Researcher**

Foundation for Research & Technology Hellas (FORTH), Inst. of Electronic Structure and Laser (IESL), Microelectronics Research Group (MRG)

- **1/12/2016- 30/06/2018: Postdoctoral Research Fellow**

Foundation for Research & Technology Hellas (FORTH), Inst. of Electronic Structure and Laser (IESL), Microelectronics Research Group (MRG)

- **1/10/2015-30/11/2016: Postdoctoral Research Fellow**

Crete Center for Quantum Complexity and Nanotechnology, University of Crete, Physics Department

- **01/01/2014-30/09/2015: Postdoctoral Research Fellow**

Foundation for Research & Technology Hellas (FORTH), Inst. of Electronic Structure and Laser (IESL), Microelectronics Research Group (MRG)

- **10/06/14-10/10/14: Postdoctoral Research Fellow** at Ioffe Physical Technical Institute, Saint Petersburg, St. Petersburg, Russia
- **20/06/13-20/10/13: Postdoctoral Research Fellow** at Ioffe Physical Technical Institute, Saint Petersburg, St. Petersburg, Russia
- **25/05/12-25/09/12: Postdoctoral Research Fellow** at Ioffe Physical Technical Institute, Saint Petersburg, St. Petersburg, Russia
- **01/12/2012-31/12/2013: Postdoctoral Research Fellow**
University of Crete, Department of Materials Science and Technology.
- **12/06/2011-20/12/2011: Postdoctoral Research Fellow** at Nano-photonics Group, Cavendish Laboratory, Cambridge.
- **10/01/2011-30/11/2012: Postdoctoral Research Fellow**

Foundation for Research & Technology Hellas (FORTH), Inst. of Electronic Structure and Laser (IESL), Microelectronics Research Group (MRG)

Education

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|-----------|---|
| 2006-2010 | PhD in Materials Science and Technology, University of Crete, Greece
<u>Title: “Polariton Light Emitting Devices”</u> |
| 2003-2006 | MSc in Microelectronics/Optoelectronics with specialization in semiconductor lasers, Physics Department, University of Crete, Greece.
<u>Dissertation: “Electric field tunable Vertical Cavity Surface Emitting Laser”</u> |
| 1998-2003 | BSc in Physics, University of Patras, Greece.
<u>Diploma Thesis: “Fiber Raman lasers and amplifiers”</u> |

Participation in Research Projects

1. FP7-NANOTEC (GA no 288531)
2. FP7-SMARTPOWER (GA no 288801)
3. FP7-POLAFLOW (GA no 308136)
4. NFFA-EUROPE (GA no 654360)
5. FP7-REGPOT (Project no 316165)
6. ARISTEIA, APOLLO (no 1978)
7. THALIS (MIS 377292)
8. SNF-ARCHERS

Research Grants

1. **Greek GSRT EABM 34, Young Investigator Support Grant “Analog Polariton Simulator”.**
(56,350 €)

Honors-Awards

1. Manasaki Scholarship for postgraduate students (2008), Department of Materials Science and Technology, Univ. of Crete
2. Stavros Niarchos Foundation Scholarship within the framework of the project ARCHERS (“Advancing Young Researchers’ Human Capital in Cutting Edge Technologies in the Preservation of Cultural Heritage and the Tackling of Societal Challenges”, 2017),

Scientific Interests

1. Novel polaritonic devices (LEDs, Lasers, Transistors, Switches, single photon emitters, polariton optical circuits).
2. Hybrid semiconductor-organic polariton LEDs.
3. Semiconductor optoelectronic devices (Edge emitting lasers, Vertical cavity surface emitting lasers, self-assembled InAs quantum dots single photon emitters).
4. Classical and quantum photonic cryptographic schemes and all optical processing.

Research and Professional Experience

- Semiconductor (III-V Arsenides) lithography clean room techniques.
- Device and Photolithographic mask design.
- Processing of III-V semiconductors and polymers (PMMA, PMGI)
- Packaging-bonding of semiconductor/organic devices.
- Electrical characterization.
- Optical characterization techniques at room and cryogenic temperatures.
(Photoluminescence, Time resolved Photoluminescence, Reflectivity, Transmittance, k-space and real space imaging)
- Mentoring ten students (5 PhD, 3 master thesis, 2 diploma thesis)
- Programming Languages: Mathematica, Matlab, OriginLab.
- Scientific Document Preparation: Microsoft office, OriginLab, LaTeX.