George Deligeorgis

Personal Details:	**Born** in Athens, Greece
Working address:	Microelectronics Research Group (MRG) Institute of Electronic Structure and Laser (IESL) Foundation for Research and Technology (FORTH) 1st Floor, Physics Building, Univ. of Crete 70013, Vassilika Vouton, Herakleion, Crete, Greece Tel: +302810394112 Fax: +302810394105
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Education

July 2008	**Ph.D** in *Microelectronics - Optoelectronics,* Thesis on *"Tunable laser diodes utilizing internal electric field"* Dpt. of Physics, Crete University, Greece
Dec 2002	**M.Sc** in *Microelectronics - Optoelectronics,* Thesis on *"Integrated Optoelectronic Circuits"* Dpt. of Physics, Crete University, Greece
July 2000	**B.Sc** in Physics, National Capodestrian University, Dpt. of Physics, Athens, Greece

Research Interests

Novel devices for telecommunications and high speed (THz) electronics.

- High frequency circuits and devices
- Graphene and CNT ballistic devices
- 2 Dimensional transition metal dichalcogenide electronics
- Polariton based electronics and optoelectronics (Polaritonics)
- New computing paradigms, non conventional electronics (All optical computing, neuromorphic circuits)

Work experience

9/2015 - Today

- **Researcher (Grade C)**
  - FORTH – IESL, Microelectronics Research Group, Irakleio, Greece
    - Graphene and other 2D material electronics
    - Polariton devices
    - Coherent electronics

4/2014 - 9/2015

- **Research Associate (Research fellow)**
  - FORTH – IESL, Microelectronics Research Group, Irakleio, Greece
    - Graphene and other 2D material electronics
    - Polariton devices
    - Coherent electronics

4/2010 – 3/2014

- **Research Associate (Research fellow)**
  - CNRS – LAAS, MINC group, Toulouse, France
    - Co-ordinating carbon electronics activity

7/2008 – 11/2009

- **Research Associate (Junior post-doctoral fellow)**
  - FORTH – IESL, Microelectronics Research group, Irakleio, Greece
    - Optoelectronic device design and fabrication
    - Tunable and Polariton based lasers and emitting devices
    - Graphene electronics

1/2003 – 6/2008

- **Research Assistant**
  - FORTH – IESL, Microelectronics Research group, Irakleio, Greece
    - Tunable laser device design and fabrication
    - Microwave device design and fabrication
    - Co-ordination of the following zones:
      - Plasma etching / deposition
      - Wire bonding
      - Lithography mask design and fabrication

Teaching Experience

- "Introduction to experimental Physics"
  - Laboratory [1 Semester, Undergraduate level]
- "Principles of Optics"
  - Laboratory [6 Semesters, Undergraduate level]
- "Lithography Mask Design"
  - Course [2 Semesters, Postgraduate level]
- "Ph-575: Physics of 2D semiconductor based devices"
  - Course [1 Semester, Postgraduate level]

*Languages **

**(Common European Framework of Reference for Languages)*

	Understanding		**Speaking**		**Writing**
	Listening	Reading	Spoken Interaction	Spoken production	
Greek	Native speaker				
English	Proficient (C2)	Proficient (C2)	Proficient (C2)	Proficient (C2)	Proficient (C2)
French	Proficient user (C1)	Proficient user(C1)	Independent user (B2)	Independent user (B2)	Independent user (B2)
German	Independent user (B2)	Independent user (B2)	Independent user (B1)	Independent user (B2)	Independent user (B1)

Managerial skills

- Appointed in FORTH website update committee [2018]
- Appointed in charge of FORTH – IESL website update [2017]
- Elected board member of "Micro & Nano scientific society" [2015 - 2018]
- Head of the nano-fabrication facility of FORTH – IESL – MRG [2014 -]
- Chair of the Greek Workshop on 2D materials 1-2 November 2016
- Local organizing committee "Graphene 2014" , Toulouse, 6-9 May 2014
- Scientific committee "GrapHEL 2013" 27-30 September, Mykonos, Greece
- Coordinating the carbon based RF activity in CNRS-LAAS-MINC [2010-2014]
- Coordinating the memristor activity in CNRS-LAAS-MINC [2011-2014]
- Head of the nano-fabrication facility FORTH-IESL, MRG [2008 – 2010]

Participation in EU projects

- ESPRIT project "BONTEC" [1999 – 2001]
- INCO – COPERNICUS "MEMSWAVE" [2000 – 2004]
- Network of Excellence "AMICOM" [2004 – 2007]
- TARGET (NoE) [2004 – 2008]
- ESA "RFQ3-12083" [2007 – 2008]
- IST "PHOME" [2008 – 2010]
- Greek-Russian "POLISIMULATOR" [2017 – 2019]
- Greek EDK "RADAR" [2018 – 2021]
- H2020 – ICT "SMARTCONNECT" [2019 – 2021]

Attracted funding

- **CHISTERA "PNEUMA"** 2011 - 2014 200 K€
  - CNRS – LAAS Principal investigator
- **"Tera-phene" Greek ministry of research** 2012 200 K€
  - Program coordinator
- **EU – FP7 ICT "NANORF"** 2012 – 2015 407 K€
  - CNRS – LAAS Principal investigator
- **Post-Doc Region Midi-Pyrenees** 2012 - 2013 51 K€
  - Program coordinator
- **EU – H2020 FETOPEN "Visor-SURF"** 2016 – 2020 100 K€
  - FORTH – IESL – MRG Team leader
- **EU – H2020 ICT "NANOSMART"** 2018 – 2021 610 K€
  - FORTH Principal investigator
- **EU – H2020 FETOPEN "NANOPOLY"** 2019 – 2021 515 K€
  - FORTH Principal investigator

Invited seminars / short courses

- Invited lecture at "*Graphene and Nanotechnology*" Workshop on nanotechnology, Material Science Dpt, **University of Patras**, Greece, 2013
- Invited seminar "*Graphene, the wonder material: promises, status and future*" at Université Paul Sabatier, **Société Française de Physique** , Toulouse, France 27 January 2012
- Invited by European Microwave Association to author a book (monograph) titled: "*Graphene RF and sensor device engineering*" to be published by **Cambridge University Press** Contract signed Feb 2012.
- Invited to lecture at "*Nanotechnology*" **Summer School of advanced Physics**, Physics Dpt. University of Crete, Heraklion, Greece, Summer 2011

Reviewerin journals / funding bodies

- Funding bodies
  - GSRT (Greece) : Reviewer in "Ereyno – Dimourgo – Kainotomo"
  - FWF (Austria) : Reviewer for the "Elise Richter" programme
- Journals
  - **IEEE:** Microwave and Wireless Components Letters / Electron device letters / Microwave theory and Techniques / Transaction on Nanotechnology / Nanoscale / Carbon / 2D Materials
  - Applied Physics Letters / Journal of Applied Physics
  - Physica Status Solidi / Thin Solid films / Microelectronics Engineering / Solid-state electronics

PhD and M.Sc. supervision

- **PhD co-supervision**
  - Giancarlo Vinzenzi on "*Graphene high frequency transport phenomena*" January 2014.
- **M.Sc. supervision**:
  - K. Triantopoulos (2016) currently Ph.D. in NEEL France
  - A. Stavrakaki (2016) currently in private education Athens Greece
  - B. Gabritchidze (2017) currently Ph.D. in Caltech USA
  - N. Chatzarakis (2017) currently Ph.D. in UoC Crete Greece
  - A. Vervelaki (2019 expected)
- **Final year projects supervision**
  - A. Vervelaki (2018)
  - A. Manasi (2019 expected)
  - M. Papaxatzakis (2019 expected)
- **PhD committees**
  - D. Medhat (2012 CNRS – LAAS, France),
  - A. Bunea (2015 IMT Romania),
  - K. Moschovis (2016 UoC, Greece),
  - Opponent for D. Jiang (2016 Chalmers Univ. Sweden)

Publications summary

Publications record		*Impact (Google scholar)*	
Published articles in international journals:	49	Citations	1450
Presented in peer reviewed conferences:	48	Citations (last 2 years)	450
Invited presentations:	14	h-index	21

http://scholar.google.fr/citations?user=K6l72yoAAAAJ&hl=en

Publications record (Web of Knowledge)		*Impact (ISI)*	
Articles in ISI (including conferences)	77	Citations	992
Articles with citation data	62	Without self-citations	960
Average citations per item	16	h-index	19

http://www.researcherid.com/rid/E-8450-2010