

Curriculum Vitae

Name: **Georgia E. Athanasiadou**
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1 Education

1993-1997: **University of Bristol (UK)**. PhD degree with thesis title: 'Development, Investigation and Evaluation of Novel Indoor and Outdoor Ray Tracing Propagation Models'. The first year was funded by the Bakala Foundation, Greece, and the second and third years by NORTEL, Harlow, UK.

1986-1992: **National Technical University of Athens (Greece)**. 5 year degree in Electrical & Computer Engineering. Final year undergraduate project: 'Theory and Applications of Spread Spectrum Modulation with emphasis on the Direct Sequence Spread Spectrum technique'.

2 Employment

September 2002 – today: University of Peloponnese, Department of Informatics and Telecommunications.

2002-2005: Adjunct Professor

2005- today: Assistant Professor on 'Modern Wireless Communications: Propagation and Radio Coverage'.

Member of the research team of the Wireless and Mobile Communication Lab (wmclab.uop.gr)

Research Interests:

Wireless and mobile Communications, Propagation modelling and measurements, Radio network planning of wireless networks, 5G and green communication systems

Responsible for setting-up the Labs:

Digital Communications

Wireless & Mobile Communications

Undergraduate Courses

Electromagnetic Fields - (<https://eclass.uop.gr/courses/TST136/>)

Principles of Telecommunication Systems – (<https://eclass.uop.gr/courses/TST137/>)

Wireless Links (<https://eclass.uop.gr/courses/TST145/>)

Previously: Physics, Fields and Waves in Telecommunications, Communications I

Postgraduate Courses

Propagation and Radio Coverage in Wireless Communications (<https://eclass.uop.gr/courses/TST240/>)

Previously: Advance Topics on Antennas and Propagation

Supervision of final year undergraduate projects and postgraduate projects

Supervision of more than 5 postgraduate and 15 undergraduate final year projects.

Main supervisor of two PhD candidates. Co-supervision of two other PhD candidates.

In the exam board of three PhD vivas.

Projects

Research project with Huawei European Research Center, Munich, Germany on ‘Nomadic Node Relays for Wireless Communications’, since 5/15.

Research project Thalís INTENTION: Novel Transmit and Design Techniques for Broadband Wireless Networks (MIS 379489), co-financed by the European Union (European Social Fund ESF) and the Greek National Funds through the Operational Program Education and Lifelong Learning of the National Strategic Reference Framework (NSRF)-Research Funding Program (4 university partners, total 511.611 €). Role: member of the wmclab research team. 2012-2015.

PEGA – ‘Development and management of wireless wideband and optical networks’, Educational program for the Prefecture of Peloponnese funded by EC and national funds.

Research project PENED 2003, ‘Advanced wireless communication MIMO systems’, National Technical University of Athens, School of Electrical & Computer Engineering, Microwave & Fiber Optics Lab, CEC funded, 11/2005-06/2009. Role: Technical support on propagation topics.

Participation in OffCom (Office of Communications), UK Research Program – (SES AY4463), *A Study on the Efficient Dimensioning of Broadband Wireless Access Networks*, with COTARES, Cambridge Broadband Ltd. and University of Cambridge, UK.

Administration Work

Member of the Departmental Administration Board and various administrative committees.

April 2001 - July 2002: Industrial Research Fellow, Cambridge University, UK, Department of Engineering, Lab for Communications Engineering

Principal investigator of the research project 'Broadband fixed wireless access systems: Radiowave propagation and network planning', funded by Cambridge Broadband Ltd (CBL), UK.

Co-supervised the PhD thesis: 'Measurements and characterization of the BFWA radio channel'

December 1999 - March 2001: Senior Research Engineer, Adaptive Broadband Ltd. (ABL), Cambridge, UK.

Development of a simulation model for the design and analysis of a BFWA system. Analysis of deployment issues for the ABL products. Contribution to the international standard IEEE 802.16.

Supervision of research projects on OFDM modulation, smart antennas and MIMO systems, equalizers and automatic frequency planning with the University of Cambridge (4 projects) and the University of Kansas, USA (1 project).

October 1993 - October 1999: Research Assistant – Research Associate – Research Fellow, University of Bristol, Department of Electrical Engineering, Centre for Communications Research.

Research projects:

Development and Validation of a new Deterministic 3D Propagation Model for the Automated Planning of Next Generation Macro- and Micro- cellular Networks – Project sponsored by ORANGE PCS, Bristol, UK and NORTEL, Harlow, UK. (Duration: 2 years)

EPSRC Grant and ORANGE PCS: Optimisation of Adaptive Antennas for UMTS Environments. (Duration: 1.5 years).

Network planning for an angle of arrival based user location system. (Duration: 6 months)

CITRUS Project (Channel Impulse of Three-dimensional Rural-Urban Situations) - sponsored by the Defence Evaluation Research Agency (DERA), Malvern, UK. (Duration: 1.5 years)

ESPRIT WINHOME Project, funded by the CEC. (Duration: 6 months)

ACTS TSUNAMI II project, funded by the EC. (Duration: 1 year)

Investigation of the Wireless Indoor Wideband Channel at 60GHz - sponsored by Hewlett Packard (HP) Labs, Bristol, UK. (Duration: 1 year)

VURI Project: Investigation into the Accuracy and the Sensitivity of a Microcellular Ray Tracing Model - sponsored by British Telecom (BT). (Duration: 6 months)

Development of a microcellular propagation tool using 2D building databases, sponsored by the Defence Evaluation Research Agency (DERA), Malvern, UK. (Duration: 6 months)

Teaching assistant: C programming lab.

Co-supervision of 2 PhD students.

1992-1993: Post-graduate Research Assistant, National Technical University of Athens, Mobile Radio Communications Laboratory.

1/ INMARSAT 21 R&D - on a Pan-European safety standard for non-ionising radiation

2/ RACE BARBARA - on functional requirements for telelibrary and teletraining applications

3/ RACE II PLATON - on the characterisation of a number of different cellular environments

Teaching assistant: Radio communications Lab.

3 Additional Information

- ✓ 23 journal publications - <http://users.uop.gr/~wmclab/journals.php>
- ✓ 2 book chapters - <http://users.uop.gr/~wmclab/books.php>
- ✓ More than 35 conference papers - <http://users.uop.gr/~wmclab/confs.php>
- ✓ More than 990 citations according to Google scholar.
- ✓ 486 citations according to Scopus (395 after excluding self-citations of all authors)
- ✓ Technical reports for Huawei, Thalys-INTENTION, Ofcom - Ref: AY4463, ACTS SUNBEAM, ESPRIT WINHOME, ACTS TSUNAMI, British Telecom VURI, RACE – PLATON, INMARSAT.
- ✓ Best paper award finalist at the EUCAP 2015 (www.eucap2015.org/conference/grants-awards)
- ✓ Reviewer for international journals:
 - IEEE Transactions on Antennas and Propagation, IEEE Transactions on Vehicular Technology
 - IEEE Transactions on Wireless Communications, IEE Proceedings on Communications
 - IEEE Communications Magazine, IEEE Antennas and Propagation Magazine
 - IEEE Vehicular Technology Magazine, Kluwer Academic Publishers

EURASIP Journal on Wireless Communications and Networking,

Research Letters in Communications Hindawi Publishers,

Wireless Networks,

Radio Science AGU,

Mediterranean Journal of Computers and Networks

✓ Technical Program Committee (TPC) member:

1. IEEE Wireless Communications and Networking Conference (WCNC) 2007, Hong Kong, 11-15 March 2007.
2. IEEE Vehicular Technology Conference 2008-Fall, Calgary Alberta Canada, 21 - 28 September, 2008.
3. IEEE 19th Annual Symposium on Personal Indoor and Mobile Communications (PIMRC), Cannes, France, 15-18 September 2008.
4. IEEE Global Communications Conference (GLOBECOM) 2008, Wireless Communications Symposium, New Orleans, LA, USA, 30 November – 4 December, 2008.
5. IEEE International Conference on Communications, ICC 2008, Wireless Communications Symposium (WCS), Beijing, China, May 19-23, 2008.
6. IEEE International Conference on Communications, ICC 2009, Wireless Communications Symposium (WCS), Dresden, Germany, June 14-18, 2009.
7. IEEE 24th Annual Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC 2013), London, UK, 8-11 September 2013.
8. 2014 Loughborough Antenna and Propagation Conference, (LAPC), Loughborough, UK, 10-11 November.
9. IEEE 25th Annual Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC 2014), Washington, DC, USA, 2-5 September 2014.
10. 2015 Loughborough Antenna and Propagation Conference, (LAPC), Loughborough, UK, 2-3 November.
11. IEEE 26th Annual Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC 2015), Hong-Kong, China, 30 August-2 September 2015.
12. 9th European Conference on Antennas and Propagation (EUCAP 2015), Lisbon, Portugal, 12-17 April, 2015.
13. 2016 Loughborough Antenna and Propagation Conference, (LAPC), Loughborough, UK, 14-15 November.
14. IEEE 27th Annual Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC 2016), Valetia, Spain, 4-7 September 2016.

✓ Reviewer for many international conferences

✓ Postgraduate studentship from the Bakala Institute (1993-94) and Nortel Networks UK (1994-1996)

✓ Invited presentations to leading communication companies and research labs: Hewlett Packard Labs, NORTEL Networks (UK), NORTEL Wireless Research Centre (Ottawa, Canada), 'NORTEL Global Research Conference', Richardson, Texas, 1997.

✓ Member of the Technical Chamber of Greece (TCG) since 1992, IEEE ComSoc Radio Communications Committee (RCC), EurAAP Propagation Working Group.