MICHAEL BATISTATOS

Address	Parodos Ari Prokopea, Tripoli 22100, Arcadia, Greece	**Nationality**	Greek
E-mail	mbatist@uop.gr	**Date of Birth**	27th of July 1976

EDUCATION

- **Master of Science in Digital Communication Systems** 2000-2001
  Loughborough University, Leicestershire, UK
  Department of Electronic and Electrical Engineering
- **Bachelor's Degree in Physics** 1994-2000
  University Of Ioannina, Greece
  School of Science, Department of Physics
- **Summer School in Advanced Physics** 1999
  University Of Crete, Greece
  Institute of Research and Technology, Department of Electronic Structure and Laser

TEACHING WORK EXPERIENCE

- **Academic Laboratory Teaching Staff** 2008 - present
  Department of IT & Telecommunications, University Of Peloponnese, Greece
- **Visiting Lecturer** (Erasmus Programme) Nov 2013
  Northumbria University, Newcastle Upon Tyne, UK
- **Math Teacher (Summer School)** 2012 (summer)
  American School, Switzerland
- **Physics, Math and Chemistry Private Tutor** 2003-2009
- **Physics Teacher** 2003-2006
  Technical School Of Maroussi, Greece
- **IT & Telecoms Teacher** 2004-2006
  Public Vocational Training Institute (IEK), Greece
- **Electronics Laboratory Teacher** 2004
  ASPETE (Department of Higher Education in Pedagogic and Technological Education), Greece

NON-TEACHING WORK EXPERIENCE

- **ADSL Field Engineer**   2006-2008
  Intracom Telecom, Greece
- **Telecommunications Contractor**
  National Technical University of Athens   2012-2013
  National Centre for Scientific Research "Demokritos"   2001, 2004-2006 & 2019-2020
  (Institute of Informatics & Telecommunications)
- **Final year project for the master's degree**   2001
  Sarantel Ltd, UK

MAIN RESEARCH INTERESTS

- **Unmanned Vehicles (drones) Systems**
  - Assembly/Network Connectivity/Onboard Intelligence
- **Unmanned Aerial Vehicle (UAV) assisted cellular networks - Flying relays/Base stations**
  - RF measurements (RSRP, RSRQ, SINR, Path Loss) for flying relays over existing 4G networks of rural and urban areas
  - Coverage & Capacity analysis
- **UAV integration in cellular networks**
  - UAV control through cellular networks
  - Design of autonomous system for UAV centralized services
- **UAV assisted sensor networks**
  - Wireless sensor data collection using UAVs
- **5G and next Generation Networks**
  - NG-RAN
- **Electromagnetic Field measurements for Safety**
  - Base stations radiation measurements in towns and buildings
  - Mobile handset radiation measurements
  - Data Analysis

RESEARCH/PUBLICATIONS

Publications:

- Batistatos MC, et al. **Mobile telemedicine for moving vehicle scenarios: Wireless technology options and challenges**. *Journal of Network and Computer Applications (2012), doi:10.1016/j.jnca.2012.01.003*
- Batistatos MC, et al. **Flying Relays for 4G Service-on-Demand Applications**, *EUCAP conference, 2016*
- Batistatos MC, et al. **An Arduino-Based Subsystem for Controlling UAVs Through GSM**, *MOCAST conference, 2017*
- Batistatos MC, et al**. LTE Ground-to-Air Measurements for UAV-assisted cellular networks**, *EUCAP conference, 2018*

- Batistatos MC, et al. **LTE measurements for flying relays**, *MOCAST conference 2018*
- Xilouris GK, Batistatos MC, et al. **UAV-Assisted 5G Network Architecture with Slicing and Virtualization**, *IEEE Globecom Workshops, 2018*
- Athanasiadou GE, Batistatos MC, et al**. LTE Ground-to-Air Field Measurements in the Context of Flying Relays**, *IEEE Transactions on Antennas and Propagation, 2019*
- Goudos S, Tsoulos GV, Athanasiadou GE, Batistatos MC, et al. **Artificial Neural Network Optimal Modelling and Optimization of UAV Measurements for Mobile Communications Using the L-SHADE Algorithm***, IEEE Transactions on Antennas and Propagation, 2019*

External Reviewer:

- IEEE Communications Magazine
- IEEE Vehicular Technology Magazine
- IEEE Transactions on Communications
- International Journal of Digital Multimedia Broadcasting
- Journal of Symbiosis Center for Information Technology (SCIT)

Projects:

National Centre For Scientific Research "Demokritos"   2001 & 2004-2006 & 2019-2020

Institute of Informatics & Telecommunications

- **RESPOND-A:** Next-generation equipment tools and mission-critical strategies for First Responders
- **5GENESIS:** 5th Generation End-to-end Network, Experimentation, System Integration, and Showcasing
- **REPOSIT:** Real Time Dynamic Bandwidth Optimization in satellite Networks
- **ENTHRONE:** End-to-End QoS through Integrated Management of Content, Networks and Terminals
- Integrated network services via satellite
- Optimal design of broadband wireless networks

National Technical University of Athens   2012-2013

- Thalis – Intention: Novel Transmit And Design Techniques For Broadband Wireless Networks

Sarantel Ltd, telecommunication company, UK   2001

- The final Master's project Main Topic:
  Panasonic and Sarantel antenna efficiency and gain measurements,
  GSM, Dual and triple band, Specific Absorption Rate (SAR) and
  radiation measurements using phantom human heads

ADDITIONAL KNOWLEDGE

Languages

- English (Fluently): Post-graduate degree taught in English, First Certificate in English (University of Cambridge)
- Greek: mother tongue

IT skills and scientific equipment knowledge

- UAV-UGV (Drones) Hardware and Software
- UAV Ground Station Software
- RC models construction
- RC airplanes-helicotpers pilot
- Narda SRM-3000 (EMF Measurement Unit)
- Nemo Outdoor, Nemo Analyze, Nemo Handy (2G/3G/4G signal measurements and data analysis)
- Opal System (DVB-S Encapsulator, Multiplexer)
- DSLAM configuration
- Matlab, Simulink, HTML
- Video filming/editing/CC/CG (Adobe Premiere/After Effects, plugins, Green screen effects etc.)
- Audio recording/editing (Cubase, Wavelab)
- Music Composition (official worldwide album releases through record/distribution labels)