Biographical Sketch – Maria Papadopouli

Current position and affiliation

Professor, Department of Computer Science, **University of Crete** (since September 2017)
Research Associate, Institute of Computer Science, **FORTH**, Greece (since September 2004)
Senior Researcher/PI, Archimedes AI Research Unit (since March 2023)
Visiting Professor, Harvard Medical School/BWH (September 2022 - January 2023, sabbatical)

Previous positions and affiliations

Associate Professor, Department of Computer Science, **University of Crete** (February 2012-August 2017)
Assistant Professor (tenured), Department of Computer Science, University of Crete (September 2004–February 2012)
Visiting Full Professor, KTH Royal Institute of Technology, School of Electrical Engineering, Stockholm, Sweden (May 2011 – September 2013)
Adjunct Professor, Department of Computer Science, **University of North Carolina, Chapel Hill** (July 2006-2009)
Assistant Professor (tenure-track), Department of Computer Science, **University of North Carolina at Chapel Hill** (July 2002 – July 2004, on leave from August 2004 – June 2006)
Visiting Professor Department of Computer Science, **University of Crete** (September 2004 - August 2005)

Ph.D., Computer Science, **Columbia University,** New York, NY, October 2002

Awards & Distinctions & Fellowships

1. **Marie Curie RISE Fellow, Harvard Medical School** 2022-2025
2. Nominated & selected in the **N2Women Stars in Networking & Communications 2021**
3. **Marie Curie RISE Fellow Harvard University** (June-July 2019)
4. **Fulbright Scholar CSAIL MIT** (Spring 2017, sabbatical from University of Crete)
5. **Comcast Innovation Fund**, August 2016
6. **Fulbright Award 2016** for her visiting professorship at CSAIL MIT in the Spring 2017
7. **Google Faculty Award** for Research Excellence in Academia 2013; Only recipient from a University/Research Center in Greece since 2005, 12% of these awards to faculty in European Universities/Research Centers. Acceptance rate < 15% (as of 2013)
8. **Research Excellence**, Investigator-driven grant (~ NSF Career Award) 2012–2015
9. **Best Paper Award** 8th Int. Conf. Quality of Multimedia Experience (QoMEX), 2016
10. **Honorable mention for papers** in IEEE LANMAN 2010 & 2005, ACM Int. Conf. on Modeling, Analysis & Simulations of Wireless & Mobile Systems 2010
11. G**oogle and Microsoft grants** for academic course development
12. **UNC Junior Faculty Development** Award 2006
13. **IBM Faculty Award 2004** & **IBM Faculty Award 2003**
14. **Best student paper/poster**, Advances in Wired & Wireless Comm., IEEE Sarnoff Symposium 2001
15. **Rank 1st,** graduation Department of Computer Science, University of Crete 1992
16. Scholarships based on academic achievement, National Scholarship Foundation, Greece (1988–1991)
17. **Rank 2nd nationwide**, National Entrance Examinations, Department of Computer Science, University of Crete 1988
18. **Prizes** in Examinations in Mathematics, Greek Mathematical Society 1985 –1987
    Rank 1st nationwide, Examination in Mathematics, Greek Mathematical Society 1985

Grants (PI and/or Organizer)

1. **UNC Startup Research Funding**, 2002-2005 ($ 250,000)
2. **UNC Junior Faculty Development Award Recipients**, 2006
3. **Marie Curie International Reintegration Grant**, 2005-2007 (€ 80, 000)

4. **Hellenic Republic Ministry of Development**, General Secretariat for Research and Technology, Program "Cooperation with S & T Institutions in non-European Countries - 2005", FORTH - UNC (€60,000)
5. **Hellenic Republic Ministry of Development, General Secretariat for Research and Technology. "**Advanced services in wireless wide area networks for visitors and tourist-related companies and agencies of Crete-Wireless Information Service" (CRETE-WISE), *Co-PI* (€ 573,507)
6. **ENISA**, Position Paper on Mobile Identity Management (€ 4,999)
7. **Google, Google AndroidEDU programme, Equipment Award** (PI)
8. ELKE, University of Crete, Small-scale program. Travel grant (PI, €1,300)
9. General Secretariat for Research and Technology, **"ARISTEIA" Excellence, Investigator-driven.** Developing the foundations for modelling and Analysis of Spectrum Markets (€386.000, PI, equivalent with NSF Faculty Career Award)
10. **Google Faculty Award** for Research Excellence in Academia 2013 (PI)
11. **Forthnet, S.A.**, February 2015-September 2015 (€30.000, PI)
12. **Neurocom S.A.,** May 2015-July 2015 (€14.000,PI)
13. **Fulbright Faculty Award, 2016** for supporting the visiting professorship at CSAIL, MIT during January 2017 until May 2017, sabbatical from University of Crete (PI)
14. **Forthnet S.A.,** July 2016-May 2017 (€40,000, PI)
15. **Comcast**, Comcast Innovation Fund, 2017- 2018 ($50,000, PI)
16. **Greek Diaspora Fellowship Program** 2016-2017 & 2019-2020 hosting Prof. Smirnakis (Harvard Medical School) for joint teaching & research activities on comp. neuroscience.
17. **Hellenic Foundation for Research & Innovation** for the support of postdoctoral researchers 2018-2021, on Dissecting Multi-Neuronal Modules of Computation in the Neocortex. ***Ranked among the top 5*** *in the areas of Mathematics and Communication Sciences (*€ 237,000, Coordinator)
18. **Niarchos-FORTH Postdoctoral Fellowship** 2019-2020 on Network Analysis of Visual Cortex during Learning (PI/Supervisor, Fellow: Dr. Kehayas)
19. **Fondation Santé**, January 2019-2020 & 2020-2021 Neuronal networks in epilepsy – Deciphering the role of activity patterns in focal cortical seizures (€55,000, PI)
20. **Forth Synergy**, 2019-2022 **o**n Neural Networks in Alzheimer's disease. (€80,000, PI)
21. **Marie Curie, Individual Fellowships 2021-2023** on Brain Networks in Learning. (€165,085, PI & MC Supervisor, MC Fellow Dr. Kehayas)
22. **Marie Curie, RISE, 2021-2025** Network Analysis in Neocortex during Passive and Active Learning. (€901.600, PI & Coordinator)
23. **Hellenic Foundation for Research & Innovation** for the support of faculty members on Changes of Brain Networks under Learning in Normal Aging and Alzheimer's Disease. ***Ranked within top 5%*** in the Evaluation Process; (€200,000, PI)

List of publications: https://scholar.google.com/citations?user=wZFtgBwAAAAJ&hl=en

Memberships of scientific societies, editorial boards (selected): **IEEE Transactions on Mobile Computing,** Associate Editor (2016-2019); **Springer,** *Traffic Monitoring & Analysis, LNCS 5537*; *Special Issue of the* International Journal of Network Management, Wiley, Traffic Monitoring and Network Measurements: from Theory to Practice; **26th ACM MobiCom'20** (Vice General Chair); **Program co-chair** of **11** Internat. Conf. & Workshops.

Graduate student & postdoctoral researcher supervision: 26 M.Sc. students, 5 Ph.D. students and 21 postdoctoral researchers at the University of Crete, UNC, ICS-FORTH, and KTH School of Electrical Engineering (6 of the postdocs were co-advised).

Contribution to Science & Technology and Main Research Interests

Her most significant contributions are in analysis of complex real-world networks and mobile peer-to-peer computing. Her work there was of the first efforts world-wide to analyze measurements collected from a large-scale wireless network. As part of her Ph.D. thesis, in late 90s, she introduced the mobile peer-to-peer paradigm that enables resource sharing among mobile devices *not* necessarily connected to the Internet and evaluated its performance. She is interested in understanding the underlying dynamics of complex real-world networks, from the

Internet to brain. Currently, her main focus is on the communication and computational modules of visual cortex and neuroscience-driven AI.