

# MICHAEL MARAGAKIS

Date of birth: 23/10/1976  
Physics PhD  
25is Martiou 17, Thessaloniki, 55337,  
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## CURRENT PERMANENT POSITION

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- 2019 – International Hellenic University, Department of Physics.
- Assistant Professor in Computational Solid State Physics.

## EDUCATION

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- 2009 Aristotle University of Thessaloniki, Department of Physics, Solid State Division, Computational Physics Group
- PhD in Computational Physics, with a Thesis title: “Anomalous Diffusion in complex systems with computer simulation techniques”, and under the supervision of Prof. Panos Argyrakis. Graduated with ‘Excellent’.
- 2003 Aristotle University of Thessaloniki, Department of Physics, Graduate Studies Program in “Physics of Materials”
- Graduated with 9.4/10, ‘Excellent’.
- 2001 Aristotle University of Thessaloniki, Department of Physics
- University Degree, graduated with 7.24/10, ‘Very good’.

## PUBLICATIONS IN REFEREED JOURNALS

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- 19) A Dimou, M Maragakis, P Argyrakis, “A network SIRX model for the spreading of COVID-19”, *Physica A: Statistical Mechanics and its Applications* 590, 126746 (2022).
- 18) K Angelou, M Maragakis, K Kosmidis, P Argyrakis, “The evolution of triangular research and innovation collaborations in the European area”, *Journal of Informetrics* 15 (3), 101192 (2021).
- 17) D. Gkika, N. Vordos, M. Maragakis, K.E. Tilkeridis, L. Magafas, A. C. Mitropoulos, G. Kyzas, “Patents of nanomaterials related with cancer treatment applications”, *Journal of Nanoparticle Research*, 22 (10), 1-12, (2020).
- 16) K. Angelou, M. Maragakis, K. Kosmidis, P. Argyrakis "Dynamics of regional multilinks in research innovation temporal networks", *European Physics Letters*, 130, 28001, (2020).
- 15) K. Angelou, M. Maragakis, K. Kosmidis, P. Argyrakis "Hybrid model for the patent citation network structure", *Physica A*, 541C, 123363 (2020).
- 14) K. Angelou, M. Maragakis, P. Argyrakis, “A structural analysis of the patent citation network by the k-shell decomposition method”, *Physica A*, 521, 476, (2019).
- 13) L. Filippou, G. Bnaya, M. Maragakis, P. Argyrakis, I. Bonamassa, S. Havlin, and R. Cohen, “Spontaneous repulsion in the  $A+B \rightarrow 0$  reaction on coupled networks”, *Phys. Rev. E*, 97, 040301, (2018).
- 12) N. Bastas, F. Lazaridis, P. Argyrakis, and M. Maragakis, “Static and dynamic behavior of

- multiplex networks under interlink strength variation”, EPL, 109, 38006, (2015).
- 11) N. Bastas, K. Kosmidis, P. Giazitzidis, and M. Maragakis, “Method for estimating critical exponents in percolation processes with low sampling”, Phys. Rev. E 90, 062101, (2014).
  - 10) P. Giazitzidis, N. Bastas, M. Maragakis and K. Kosmidis, “Explosive Percolation: Unusual Transitions of a Simple Model”, review paper, Physica A: Statistical Mechanics and its Applications 407, 54 (2014).
  - 9) Bastas N., Maragakis M., ben-Avraham D., Havlin S., Argyrakis P., and Carmi S., “Random walk with priorities in communication-like networks”, Phys. Rev. E 88, 022803 (2013).
  - 8) N. Tsakiris, M. Maragakis, K. Kosmidis and P. Argyrakis, “Percolation of randomly distributed growing clusters: The low initial density regime”, Eur. Phys. J. B 81, 303 (2011).
  - 7) N. Tsakiris, M. Maragakis, K. Kosmidis and P. Argyrakis, “Percolation of randomly distributed growing clusters: Finite Size Scaling and Critical Exponents”, Phys. Rev. B 82, 041108 (2010).
  - 6) Argyrakis P., Chumak A.A, Maragakis M. and Tsakiris N., “Negative diffusion coefficient in a two-dimensional lattice-gas system with attractive nearest neighbor interactions”, Phys. Rev. B 80, 104203 (2009).
  - 5) Maragakis M., Carmi S., ben-Avraham D., Havlin S., and Argyrakis P., “Priority diffusion model in lattices and complex networks”, Phys. Rev. E (Rapid Communication) 77, 020103(R), (2008).
  - 4) Argyrakis P., Chumak A.A and Maragakis M., “Tracer diffusion in ordered lattice-gas systems with defect-controlled transport mechanisms”, Physical Review B, 76, 054209, (2007).
  - 3) Argyrakis P., Maragakis M., Chumak A.A. and A. Zhugayevych, “Dynamic correlation function and fluctuations in lattice gas in c(2x2) phase”, Physical Review B, 74, 035418 (2006).
  - 2) Argyrakis P., Chumak A.A and Maragakis M., “Fluctuations in an ordered c2x2 two-dimensional lattice-gas system with repulsive interactions”, Physical Review B, 71, 224304, (2005).
  - 1) K. Chrisafis, M. I. Maragakis, K.G. Efthimiadis and E.K. Polychroniadis, “Detailed study of the Crystallization behavior of the metallic glass Fe75Si9B16”, Journal of Alloys and Compounds, 386, 165 (2005).

#### OTHER PUBLICATIONS

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- 5) Paolo Budroni, Volker Beckmann, Ignacio Blanquer, Marko Bonac, Andrea Herdegen, Ulrike Jäckel, Fotis Karayannis, Michael Maragakis, Jet de Ranitz, Arjen van Rijn, Jan Wiebelitz, ”e-IRG White Paper 2021”, <https://doi.org/10.5281/zenodo.5741971>, 2021.
- 4) P. Budroni, S. Holmgren, A. van Rijn, G. von Voigt, J. Pagaime, M. Bonac, J. Wiebelitz, F. Karayannis, M. Maragakis, “e-IRG mandate under Horizon Europe”, <https://zenodo.org/record/5567014>, 2020.

- 3) P. Budroni, S. Holmgren, A. van Rijn, J. Pagaime, M. Bonac, G. von Voigt, J. Wiebelitz, F. Karayannis, M. Maragakis, "Value of e-IRG and prospect", <https://zenodo.org/record/5567041>, 2020.
- 2) S. Holmgren, A. van Rijn, U. Jaekel, J. Kleist, G. von Voigt, F. Karayannis, M. Maragakis, and J. Wiebelitz (Eds.) "National Nodes - Getting organized; how far are we?", e-IRG publication, <https://zenodo.org/record/3608075>, 2019.
- 1) M. Lawenda, F. Karayannis, P. Schipper, M. Maragakis, J. Wiebelitz, "Summary report – Report on the retrieval, provision and analysis of policy and cost-related information / indicators", e-IRG publication, <https://zenodo.org/record/4048384>, 2019.

#### PRESENTATIONS IN CONFERENCES

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- 34) 2nd International Conference on Environmental Design ICED2021, Lyssandros Katsifarakis, Aikaterini Basdeki, Konstantinos Angelou, Ioannis Avgoloupis, Michael Kanetidis, Michael Maragakis, Panos Argyrakis, Konstantinos L. Katsifarakis, "Groundwater Resource Management for Non-potable Water Purposes, Basement Protection, And Heating - Pilot Application", Virtual, 23-24 October 2021.
- 33) Konstantinos Angelou, Michael Maragakis and Panos Argyrakis, "Connectivity evolution in research and innovation network", Summer school for data & algorithms on ST&I studies, Thessaloniki, September 03 2021.
- 32) CCS2020 Argyris Dimou, Michael Maragakis and Panos Argyrakis, "Sustained Oscillations in Multiplex Network Epidemics", CCS 2020 online workshop.
- 31) Netsci 2020, K. Angelou, M. Maragakis, K. Kosmidis, and P. Argyrakis, "The evolution of multilinks in a research innovation multiplex network", Rome, Italy, September 17-25, 2020.
- 30) Conference on Complex Systems, CCS2019, K. Angelou, M. Maragakis, K. Kosmidis, and P. Argyrakis, "A Patent Citation Network's Structure And Formation Process", Singapore, Republic of Singapore, September 30 - October 4 2019.
- 29) MECO44 44<sup>th</sup> Middle European Cooperation in Statistical Physics, Konstantinos Angelou, Michael Maragakis, Kosmas Kosmidis, Panos Argyrakis "Application of percolation theory for a structural study of patent citation networks", Munich, Germany, May 2019.
- 28) Conference on Complex Systems, CCS2018, M.A. Rouni, M. Kanetidis and M. Maragakis, "IPC class-level Correlations of patent citations time-series", Thessaloniki, Greece, September 2018.
- 27) NetSci2018, K. Angelou, M. Maragakis, and P. Argyrakis, "Thematic and geographical analysis of a Patent Citation Network", Paris, France, June 11-15 2018.
- 26) 3rd International Conference on Econophysics, K. Angelou, M. Maragakis, P. Argyrakis, "Patent Citation Network", Volos, Greece, September 28-30 2017.
- 25) Conference on Complex Systems, CCS 2017, K. Angelou, M. Maragakis, P. Argyrakis, "Temporal evolution of the giant component in Patent Citation Network", Cancun, Mexico, September 17-22 2017.
- 24) International Conference on Statistical Physics, SigmaPhi2017, K. Angelou, M. Maragakis,

- and P. Argyrakis, "K-shell decomposition method applied in patent citation network", Corfu, Greece, July 10-14 2017.
- 23) Conference on Complex Systems, CCS 2015, Michael Maragakis, Nikolaos Bastas, Filippos Lazaridis and Panos Argyrakis, "Behavior of multiplex networks with varying interlayer link weight", September 2015, Tempe, USA (talk).
  - 22) International conference on Big data in Economics, Science, and Technology, M. Tsouchnika, A. Bellwald, C. Rozenblat, P. Argyrakis and M. Maragakis, "Comparison of single and partial-multiplex patent networks", September 2015, Ohrid, FYROM.
  - 21) Econophysics Colloquium: M. Tsouchnika, P. Argyrakis, S. Havlin, and M. Maragakis, "Temporal evolution of patent network formation", September 2015, Prague, Czech Republic.
  - 20) International School and Conference on Network Science - NetSci 2015, N. Bastas, F. Lazaridis, P. Argyrakis, and M. Maragakis, "Multiplex networks with varying interlayer link strength", June 2015, Zaragoza, Spain, (talk).
  - 19) International School and Conference on Network Science - NetSci 2015, N. Bastas, K. Kosmidis, P. Argyrakis, and M. Maragakis, "Abrupt percolation transitions on multiplex networks", June 2015, Zaragoza, Spain, (Ignite talk).
  - 18) European Conference on Complex Systems - ECCS 2014, F.Lazaridis, M.Maragakis, P.Argyrakis, and S. Havlin, "Reaction diffusion processes in multiplex networks: The influence of the coupling creation method", September 2014, Lucca, Italy, (Short talk).
  - 17) European Conference on Complex Systems - ECCS 2014, N. Bastas, M.Maragakis, P.Argyrakis, and S. Havlin, "Mixing of two non-interacting species in multiplex systems", September 2014, Lucca, Italy, (Short talk).
  - 16) International Conference on Statistical Physics - Sigmaphi2014, N.Bastas, M.Maragakis, P. Giazitzidis, K.Kosmidis, and P.Argyrakis, "A novel finite-size scaling method for the calculation of critical exponents of very low values found in explosive percolation", July 2014, Rhodes, Greece (Short talk).
  - 15) European Conference on Complex Systems - ECCS 2013, Bastas N., Maragakis M., ben-Avraham D., Havlin S., Argyrakis P., and Carmi S., "Strategies to avoid information trapping in communication-like networks using random walk with priorities", September 2013, Barcelona, Spain, (Short talk).
  - 14) Aalto Complex Networks Factory, M. Maragakis, N. Bastas, S. Carmi, P. Argyrakis and S. Havlin, "The priority diffusion model: Protocols to enhance the motion of low priority information", June 2012, Porvoo, Finland, (Short talk), online proceedings on website: <http://becs.aalto.fi/en/events/factory/programme.html>.
  - 13) TWCS'2010 – "Turunc Workshop on Complex Systems" 2010, Marmaris, Turkey, August – September 2010, M. Maragakis, N. Tsakiris, K. Kosmidis, and P. Argyrakis, "Percolation in the growing clusters model", (Short talk), workshop proceedings, p. 9.
  - 12) 25th PanHellenic Conference on "Solid State Physics" & "Materials Science", Thessaloniki, Greece, September 2009, L. Skarpalezos, M. Maragakis, P. Argyrakis and M. Tringides, "Simulation of Non Classical Coarsening Mechanism in Pb/Si", conference

- proceedings, p. 306.
- 11) 25th PanHellenic Conference on “Solid State Physics” & “Materials Science”, Thessaloniki, Greece, September 2009, M. Maragakis, S. Carmi, P. Argyrakis and S. Havlin, “Random walk in complex systems with the particle diffusion model – PDM”, (Short talk), conference proceedings, p. 249.
  - 10) Final DYSONET Meeting, Palermo, Italy, November 2007, M. Maragakis, “Priority Diffusion Model (PDM) for Lattices and Complex Networks” (Short talk).
  - 9) PENED Meeting, Athens, Greece, November 2007, M. Maragakis, “Priority Diffusion Model (PDM) applied in communication systems” (Short talk).
  - 8) Conference on Computational Physics 2007 (CCP '07), Brussels, Belgium, September 2007, N. Tsakiris, M. Maragakis, P. Argyrakis, “Diffusion in a cold medium with hot spots and particle interactions”, conference proceedings, p. 312.
  - 7) Conference on Computational Physics 2007 (CCP '07), Brussels, Belgium, September 2007, M. Maragakis, N. Tsakiris, P. Argyrakis, “Percolation threshold in a system with discs of growing radii”, conference proceedings, p. 311.
  - 6) 23rd International Conference on Statistical Physics of the International Union for Pure and Applied Physics (Statphys 23), Genoa, Italy, July 2007, M. Maragakis, P. Argyrakis, S. Carmi, S. Havlin, “Priority of motion in systems of two kinds of non-interacting particles”, conference proceedings, p. 435.
  - 5) Workshop on Applications of High Performance Computing, Thessaloniki, Greece, November 2006, M. Maragakis, “Current Research in the field of Complex Networks as viewed by a physicist” (Talk).
  - 4) European Conference on Complex Systems 2006 (ECCS '06), Oxford, UK, September 2006, M. Maragakis, P. Argyrakis, S. Havlin, “The role of priority in the mobility of a system of two kinds of particles”, conference proceedings, p. 72.
  - 3) 2004 Europhysics Conference on Computational Physics, Genoa, Italy, September 2004, M. Maragakis, P. Argyrakis, A. Chumak, “Particle Diffusion on a Surface with Nearest Neighbor Repulsive Interactions: the Fluctuation Method – Advanced Topics” , conference proceedings, p. 142.
  - 2) 19th XIX Greek Conference on “Solid State Physics” & “Materials Science” (XIX GCSM), Thessaloniki, Greece, September 2003, M. I. Maragakis, P. Argyrakis, “Particle Diffusion on a Surface with Nearest Neighbor Repulsive Interactions: the Fluctuation Method”, conference proceedings, p. 695.
  - 1) 1st Greek Conference in Thermal Analysis THERMA 2002, Kerkini, Greece, September 2002, M. I. Maragakis, K. Chrisafis and E.K. Polychroniadis, “Study of the Crystallization of Fe<sub>75</sub>Si<sub>9</sub>B<sub>16</sub> with Differential Scanning Calorimetry and Transmission Electron Microscopy”, conference proceedings, p. 135.

#### CONFERENCES – SEMINARS ATTENDED

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- Conference on Complex Systems, CCS2021, Lyon, France, October 2021. \*
- Conference on Complex Systems, CCS2018, Thessaloniki, Greece, September 2018. \*

- International Conference on Statistical Physics, SigmaPhi2017, Corfu, Greece, July 10-14 2017. \*
- Econophysics Colloquium, September 2015, Prague, Czech Republic. \*
- International School and Conference on Network Science - NetSci 2015, June 2015, Zaragoza, Spain. \*
- Horizon 2020 - Transport Information Day and Brokerage event for 2015 call in Smart, Green and Integrated Transport Challenge, Brussels, Belgium, January 2015.
- European Conference on Complex Systems - ECCS 2014, Lucca, Italy, September 2014. \*
- International Conference on Statistical Physics - Sigmaphi2014, Rhodes, Greece, July 2014.\*
- Workshop – SPANDAYS, Lausanne, Switzerland, January 2014.\*
- Horizon 2020 - Future & Emerging Technologies (FET) Information Day, Brussels, Belgium, January 2014.
- 1st Greek - Bulgarian Research Entrepreneurship Workshop in the field of Complexity Science, Thessaloniki, Greece, January 2014.
- European Conference on Complex Systems - ECCS 2013, Barcelona, Spain, September 2013. \*
- International Workshop and Conference on Network Science (NetSci 2013), Copenhagen, Denmark, June 2013.
- Multiplex project kick-off meeting, Lucca, Italy, November 2012.
- Aalto Complex Networks Factory, Porvoo, Finland, June 2012. \*
- TWCS'2010 – “Turunc Workshop on Complex Systems” 2010, Marmaris, Turkey, August – September 2010. \*
- IARS TSCS'10 – “Turunc Summer School on Complex Systems” 2010, Marmaris, Turkey, August 2010. \*
- 25th PanHellenic Conference on “Solid State Physics” & “Materials Science”, Thessaloniki, Greece, September 2009. \*
- National Delegate in the Brokerage Event of the Complexity-NET ERA-NET, program “Interdisciplinary Challenges for Complexity Science”, Brussels, Belgium, May 2009. \*
- Final DYSONET Meeting, Palermo, Italy, November 2007.
- PENED Meeting, November 2007, Athens, Greece.
- Conference on Computational Physics 2007 (CCP '07), ULB, Brussels, Belgium, September 2007. \*
- 23rd International Conference on Statistical Physics of the International Union for Pure and Applied Physics (Statphys 23), Genoa, Italy, July 2007.
- Seminar of 100 hours in the framework of program PENED in issues of research methodology, research management and innovation, technology evaluation, use of R&D knowledge and its incorporation in the economic and social growth, Thessaloniki, Greece, May-June 2007. \*

- European Conference on Complex Systems 2006 (ECCS '06), Saïd Business School, University of Oxford, UK, September, 2006. \*
- IV Workshop on Non Equilibrium Phenomena in Supercooled Fluids, Glasses and Amorphous Materials, Pisa, Italy, September 2006.
- 2005 Design and Control of Self-Organization in Physical, Chemical and Biological Systems, Trieste, Italy, July-August 2005. \*
- 2005 5th International Discussion Meeting on Relaxations in Complex Systems, Lille, France, July 2005.
- 2004 Conference on Computational Physics, Genoa, Italy, September 2004.
- Electronic Processes in Organic Materials (EPOM'04), Mount Holyoke College in South Hadley, Massachusetts, USA, July 2004. \*
- 19<sup>th</sup> XIX Greek Conference on "Solid State Physics" & "Materials Science" (XIX GCSM), Thessaloniki, September 2003.
- 1<sup>st</sup> Greek Conference in Thermal Analysis THERMA 2002, Kerkini, September 2002.
- NATO – Advanced Study Institute in ‘Computer Simulations of Surfaces and Interfaces’, Varna, Bulgaria, September 2002. \*
- 1<sup>st</sup> Pan-Hellenic Symposium of the Greek Physical Union in the ‘Great Moments of Physics’, Kastoria, March 2002. \*

\* signifies the conferences in which there was a partial or full coverage of my expenses from the conference chair.

## TEACHING EXPERIENCE

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2011 – 2012 (First semester only) Technological Educational Institution of Lamia, School of Technological Applications, Department of Informatics and Computer Technologies, Laboratory Associate

- Electronic Physics, Theory and Laboratory Courses, for the students of the 1<sup>st</sup> semester.

2011 – 2011 (Second semester only) Technological Educational Institution of Serres, Faculty of Applied Technology, Department of Civil Engineering, Laboratory Associate

- Programming I, Laboratory Courses, for the students of the 2<sup>nd</sup> semester.

2010 – 2011 (Second semester only) Technical Educational Institute of Lamia, School of Technological Applications, Department of Informatics and Computer Technologies, Laboratory Associate

- Digital Systems, Laboratory Courses, for the students of the 2<sup>nd</sup> semester.

2010 – 2011 (Second semester only) Technical Educational Institute of Lamia, School of Technological Applications, Department of Electronics, Teaching and Laboratory Associate

- Electrical Circuits (Theory), and Low Frequency Electronics (Theory), for the students of the 2<sup>nd</sup> semester.

2010 – 2011 (First semester only) Technical Educational Institute of Thessaloniki, School of Technological Applications, General Department of Sciences, Laboratory Associate

- Physics, Laboratory Courses, for the students of the 1<sup>st</sup> semester.

2010 – 2011 (First semester only) Technical Educational Institute of Lamia, School of

Technological Applications, Department of Informatics and Computer Technologies, Teaching and Laboratory Associate

- Physics, Theory and Laboratory Courses, for the students of the 1<sup>st</sup> semester.

2009 – 2010 Technical Educational Institute of Lamia, School of Technological Applications, Department of Informatics and Computer Technologies, Laboratory Assistant

- Physics and Electronic Physics Laboratory Courses, for the students of the 1<sup>st</sup> semester.

2005 – 2006 Technical Educational Institute of Serres, School of Informatics and Technological Applications, Department of Informatics, Laboratory Assistant

- Physics II Laboratory Course, for the students of the 2<sup>nd</sup> semester.

2004 – 2005 Technical Educational Institute of Serres, School of Informatics and Technological Applications, Department of Informatics, Laboratory Assistant

- Physics I Laboratory Course, for the students of the 1<sup>st</sup> semester.

1999 July – 1999 December BIOTRAST S.A., Private Employee

- Introductory Course in Computers to the medical staff in Nikea Hospital, Athens.

1998 – 2000 Aristotle University of Thessaloniki, Department of Physics

- Short Introductory Course in the Basic Concepts of Computers and Operating Systems to the students of the Physics Department.

#### LANGUAGES SPOKEN

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Cambridge Proficiency in English. I have also attended a one year course in Greek to English and English to Greek translation in the British Consulate. Degree of Certificat in French.

#### AWARDS – SCHOLARSHIPS

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- Scholarship in the second year of the Graduate Studies Program in “Physics of Materials” from the Greek State Scholarship Foundation.
- Scholarship in the first, second and third semester of the Graduate Studies Program in ‘Physics of Materials’ from the Graduate Studies Program.
- Excellence award in the annual school competition of the Greek Mathematical Society in the years 1991-1992, 1992-1993.

#### PARTICIPATION IN RESEARCH PROJECTS

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- e-IRG sp7 "Electronic Infrastructures Reflection Group - support programme 7", AUTH.
- "Support Services for Academic and Research Institutions", GRNET S.A.
- e-IRG sp6 "Electronic Infrastructures Reflection Group - support programme 6", GRNET S.A.
- Interreg IIIA Greece – Bulgaria με τίτλο: “Groundwater REsource managemENT for non-Potable water pUrposes, baseMent protection, and heating - Pilot application”.
- e-IRG sp5 "Electronic Infrastructures Reflection Group - support programme 5", GRNET S.A.
- e-IRG sp4 "Electronic Infrastructures Reflection Group - support programme 4", GRNET S.A.



- FET: “Foundational Research on MULTIllevel comPLEX networks and systems - Multiplex”.
- Interreg IIIA Greece – Bulgaria: “Interregional Cooperation at Scientific Computing in Interdisciplinary Science”.
- Bilateral Cooperation Greece - USA: “Modeling of Pb nanostructure formation on Si(111) substrates”.
- NMP: “Interface Controlled Nucleation and Crystallization for Nanoparticle Synthesis (INTERCONY)”.
- Scholarship in PENED: “Structure and Dynamics of the Internet and WWW – Robustness, Peer to Peer Searching and Immunization Strategies”.
- Interreg IIIA Greece – Bulgaria: “Implementation of Advanced Methods in Computational Sciences and use of GRID Computing, with Applications to Natural Sciences and Engineering”.
- European Science Foundation: “Stochastic dynamics: Fundamentals and applications”
- DAC Hellenic Aid: “Implementation of Computer Clusters for the needs of Collaboration between the Aristotle University of Thessaloniki and the University of Tirana”.
- NEST – Pathfinder-1, Tackling complexity in science: “DYSONET – Human Behavior Through Dynamics of Complex Social Networks: An Interdisciplinary Approach”.
- PYTHAGORAS, EPEAK: “Computational study of the evolution of language through the use of simulation techniques with emphasis in the Greek language”.
- NATO Science For Peace: “Development of Ultra Wide Frequency Band Detectors of Electromagnetic Radiation”.
- Training of Doctors in Tele-Medicine for the support of the needs of the Koridallos Prisons.
- 1o Balkan Conference of Physics in Culture: The Solid State Physics in the Cultural Heritage Studies.
- Graduate Training through the use of Distant Learning Methods.

## PROFESIONAL EXPERIENCE

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2015 September – 2019 Seotember Aristotle University of Thessaloniki, IT Computing Center.

- unixadmin, VMadmin, backupadmin, storageadmin, and DCadmin of the AUPh IT Center.

2012 February – 2014 February University of Macedonia, Economics Department.

- Project manager of project ICoSCIS (650K Euro project).

2003 August – 2005 December Aristotle University of Thessaloniki, Law School, Library of the Law Department.

- System administration and technical support in the Library.

2002 February – 2004 January ECN Network Solutions & Support.

- Cofounder of ECN Network Solutions & Support, Multimedia and Hardware Sales Manager.

2000 November – 2001 March Society for the Cultural and Social Development of

Macedonia – Thrace (under the support of the General Secretary of Youth).

- Creation of a CD-ROM entitled ‘A journey to the lighthouses of Northern Greece’ with Macromedia Flash.

2000 October – 2007 November Aristotle University of Thessaloniki, Department of Physics, Solid State Section, Computational Physics Group.

- System administration and technical support in the groups computers and a 26 dual core parallel processing cluster (also previously of a 8 dual CPU cluster).

1998 June – 1999 July BIOTRAST S.A., Private Employee

- ISP Support and Security advisor.

1998 July – 1999 September Aristotle University of Thessaloniki, Distance Learning Program.

- Creation of 2D and 3D graphics for the program.

1998 February – 1999 April Aristotle University of Thessaloniki, Career Services Office.

- Collection and digitization of job related advertisements.

1998 April – 2007 October Aristotle University of Thessaloniki, Department of Physics.

- Technical support of the Teaching Staff and Courses Efficiency Rating Program.

1998 February – Personal Computer Company.

- Computer Analyst, started a Computer Hardware and Consumables Sales Company from December 2003 until April 2010.

1995 – 2001 Aristotle University of Thessaloniki, Department of Physics.

- System administration and technical support in the Undergraduate Computers Lab.

#### SPECIFIC COMPUTER SKILLS

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- Advanced software - administrative issues on Linux and Windows OS.
- VMware administration
- Technical Issues related to PC Hardware.
- Python Programming language.
- C Programming language.
- Microsoft Office Suites.
- LaTeX.
- Macromedia Flash.
- 2D graphics programs (Photoshop, Paint Shop Pro, Animation Shop).
- 3D graphics programs (3d Studio Max, Arcon, Bryce).
- ECDL Certification.

#### OTHER

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- I have actively participated as the main author or co-author in numerous research project proposals submitted by the Computational Physics Group, with an overall budget of over 30M Euro, with about 5M Euro concerning our group's needs only.

- I have participated in the administrative team of several projects and have advised on subjects of requirements and technical specifications of computational clusters. I have been in charge of projects of over 2,7M Euro (management of the entire project), and I currently am in charge of projects with an overall budget of 1,9M Euro.
- I have participated as a National delegate in the Brokerage Event of the Complexity-NET ERA-NET program “Interdisciplinary Challenges for Complexity Science”, in Brussels, Belgium, (May 2009).
- My publications in scientific journals have received more than 228 citations (not including about 11 self citations) and I have achieved an h-index 8.
- I have been selected as a Referee in high impact factor scientific journals such as Physical Review Letters – PRL (impact factor ~7.3), and others such as Physical Review E – PRE (impact factor ~2.5) and JAMC. My Publons account lists 60 verified reviews.
- I have been selected as a Referee in several scientific proposals in the EVAL-INCO framework and also acted as an international referee in proposals of the Ministry of Science and Technological Development of the Republic of Serbia and of the Scientific Researches Fund of Bulgaria.
- I was drafted in the Greek army during February 2008 – February 2009 with the rank of Master Corporal.