



Dr. Margarita Ifti
Lecturer



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EDUCATION

- **Jan 1998 – Dec 2003** Ph.D. In Statistical Mechanics/Complex Systems, University of British Columbia, Vancouver, BC, Canada
- **Jan 1996 – Dec 1997** M.S. in Condensed Matter Physics, Iowa State University of Science and Technology Ames, Iowa, USA
- **Sep 1985 – July 1990** Physicist (Special Physics course), University of Tirana, Albania

RESEARCH AREA

Statistical Mechanics of Complex Systems with applications to ecology, epidemiology, economy, sociology.

PROFESSIONAL EXPERIENCE

- **Sep 2004 – ongoing** Professor, University of Tirana, Department of Physics
- **Jan 2003 – Dec 2003** Instructor, University College of the Fraser Valley, Abbotsford, BC, Canada Department of Physics
- **Sep 2002 – Dec 2002** Instructor, University College of the Cariboo, Kamloops, BC, Canada Department of Physics
- **Sep 2000 – June 2001** Instructor, British Columbia Institute of Technology, Burnaby, BC, Canada Department of Physics
- **Jan 1998 – Dec 2003** Teaching Assistant, University of British Columbia, Vancouver, BC, Canada Department of Physics and Astronomy

Jan 1996 – Dec 1997 Teaching and Research Assistant, Iowa State University of Science and Technology Ames, Iowa, USA

Aug 1995 – Jun 1996 Fulbright Scholar (Junior), Iowa State University of Science and Technology

May 1995 – July 1995 TEMPUS Scholar (EU project), University of Portsmouth, UK

Nov 1994 – Feb 1995 DAAD Fellow (German Academy of Sciences), Universität-Gesamthochschule Siegen, Germany

Aug 1990 – Aug 1995 Lecturer/Research Assistant/System Administrator, University of Tirana, Albania, Department of Physics, Section of Computational Physics

OTHER CONTRIBUTIONS

Papers presented at International Conferences

1. S. Miço, M. Ifti, et al., Statistical properties of time series of air pollutants and meteorological data, 1st International Conference on Applied Physics, Tirana, 20–22 November, 2019.
2. K. Peqini, M. Ifti, S. Miço, Hurst exponent and magnitude distribution from palaeomagnetic and model generated time series, 1st International Conference on Applied Physics, Tirana, 20– 22 November, 2019.
3. M. Ifti and M. Marku, Toward the complete set of differential equations that describe regulatory networks, 6th International Congress on Fundamental and Applied Sciences, Tirana, 18th–20th June, 2019.
4. M. Marku and M. Ifti, Using the Genetic Algorithm to Estimate Kinetic Parameters of Klotho Network, Conference on Statistical Physics of Complex Systems, Nordita, Stockholm, 7–11 May, 2019.
5. K. Peqini, M. Ifti, B. Duka, Statistical and Hurst analysis of palaeomagnetic data, Annual Congress of European Geosciences Union (EGU), Vienna, 07–12 April 2019.
6. M. Marku, M. Ifti, A Methodological Application of Genetic Algorithm for Parameter Estimation on Gene Regulatory Networks, 7th International Conference on Advanced Technologies, Turkey, April 2018.
7. K. Nikaj, M. Ifti, Effects of the topology on the network evolution with a fixed number of agents, VII GEFENOL (Statistical Physics of Complex Systems) IFISC, Palma De Mallorca, Spain, June 2017.
8. K. Nikaj, M. Ifti, Efektet e Topologjise së rrjetës në dinamikën e brendshme në sjelljen e turmave, Konferenca e Shkencave të Natyrës dhe Teknologjisë, Tirana, November 2017.
9. K. Nikaj, M. Ifti, Behavioral Synchronization In Complex Dynamical Network Induced By Non Identical Nodes, HRESDE 2017 Conference, Shkoder, Albania.
10. K. Nikaj, M. Marku, I. Koçiaj, M. Ifti, The Internal Dynamics And The Evolving Of The Complex Social System, 11th Annual Meeting of IASH, Tirana, September 2016.
11. M. Marku, I. Koçiaj, K. Nikaj, M. Ifti, The aging network: Dynamical analysis of synchronous Boolean model of the Klotho gene, Young Women in Representation Theory, Bonn, June 2016.
12. M. Marku, M. Ifti, I. Kociaj, K. Nikaj, Dynamical Analysis of the Synchronous Boolean Model of the Klotho Gene, The 5th International Workshop on Complex Networks and their Applications, Italy, November 2016.
13. K. Nikaj, M. Marku, M. Ifti, The role of a given member in the structure of a Social Network, 10th Annual Meeting of IASH, Macedonia, August 2015.
14. D. Prenga, M. Ifti, Complexity Methods Used in the Study of Some Real Systems with Weak Characteristic Properties, 9th Conference of Balkan Physical Union. Istanbul (Turkey), August 2015.
15. M. Marku, I. Kociaj, K. Nikaj, M. Ifti, Structural Analysis of the Klotho Gene Network using Boolean Models, International Physics Conference, Tirana, November 2015.
16. S. Vito, M. Ifti, Simulations and comparison of different methods of cleaning chromium pollution from soils, 8th Conference of Balkan Physical Union, Constanta, July 2012.
17. E. Xhaja, M. Ifti, Social networks with preferential attachment have lognormal degree distribution, 8th Conference of Balkan Physical Union, Constanta, July 2012.
18. D. Prenga, M. Ifti, A model of opinion formation in majority election systems, 8th Conference of Balkan Physical Union, Constanta, July 2012.
19. M. Ifti, D. Prenga, Elements of consumer behaviour approach in the case of political opinion formation in Albania, Conference “Information Systems and Technologies and their Importance in the Economic Development”, Tirana June 10th –11th, 2011.
20. M. Ifti, D. Prenga, I. Buzi, Electoral Systems and Distribution of Votes, SigmaPhi2011, Larnaca July 10th –15th , July 2011.
21. M. Ifti, S. Vito, E. Lico, P. Xega, Studimi i procesit të adsorbimit të Cr(VI) në disa toka të territorit të Shqipërisë, Konferenca “Kimia dhe zhvillimi aktual i vendit”, Tirana, October 19th , 2011.
22. M. Ifti, Agent Based Models in Economy and Complexity, 6th Annual Meeting of Alb-Shkenca Institute, Prishtina 2011.
23. M. Ifti, M. Marku, Transition to Chaos in an Economic Model, 6th Annual Meeting of Alb- Shkenca Institute, Prishtina 2011.
24. M. Ifti, Networks of networks: from power grids to living beings to riots, 6th Annual Meeting of Alb-Shkenca Institute, Prishtina 2011.

OTHER CONTRIBUTIONS

25. M. Ifti, Molecular (Brownian) Motors, ICHQP, Vlora 28th -30th November, 2010.
26. M. Ifti, I. Buzi, Distribution of votes in Albanian parliamentary elections, 5th Annual Meeting of Alb-Shkenca Institute, Tirana, 2nd -5th September, 2010.
27. M. Ifti, P. Neumann, U. Gjoka, New Solutions to the Stable Marriage Problem, 5th Annual Meeting of Alb-Shkenca Institute, Tirana, 2nd -5th September, 2010.
28. M. Ifti, P. Neumann, Why Do Computer Viruses Survive in the Internet? 7th Conference of Balkans Physical Union, Aleksandroupolis, 9th-13th September, 2009.
29. M. Ifti, P. Neumann, Is the Stable Marriage Problem a Complex System? REAS Conference, Zagreb, 8th -11th October, 2010.
30. S. Vito, M. Ifti, and I. Malollari, Real-time simulations of precipitation processes, 7th Conference of Balkans Physical Union, Aleksandroupolis, 9th-13th September, 2009.
31. M. Ifti, R. Zeqirllari, Using unimodal maps as random number generators, 4th Annual Meeting of Alb-Shkenca Institute, Tetovo, 31st August-2nd September, 2009.
32. A. Papparisto, E. Halimi, E. Hamzaraj, M. Ifti, and O. Laknori, Comparison of the abundance of soil insects in the fields of ecological and conventional farms in Albania, 4th Annual Meeting of Alb-Shkenca Institute, Tetovo, 31st August-2nd September, 2009.
33. M. Ifti, P. Neumann, Can we have pandemics in the Internet? 4th Annual Meeting of Alb-Shkenca Institute, Tetovo, 31st August-2nd September, 2009.
34. M. Ifti, P. Argyrakis, and S. Havlin, Behaviour of Kimura genetic drift model on random networks, Int. Conf. Ecol. Environ. Sci., Tirana, 26-28th September, 2008.
35. M. Ifti, and B. Bergersen, Fluctuations and their influence on the stability of generalized Lotka-Volterra systems, Int. Conf. Ecol. Environ. Sci., Tirana, 26-28th September, 2008.
36. M. Ifti, P. Argyrakis, and S. Havlin, Cyclic dynamics on complex networks, European Conference on Complex systems, Jerusalem, 14-19th September, 2008.
37. M. Ifti, and B. Bergersen, Phase transitions in autocatalytic cycles, Annual Meeting of Alb-Shkenca Institute, Tirana, 6-9th September, 2008.
38. M. Ifti, Q. Li, D. Deaven, and C.M. Soukoulis, MC annealing vs. Genetic Algorithm in a 2D ferromagnet with long-range dipolar interactions, March Meeting of the American Physical Society, St. Louis MO, March 1996 (<http://adsabs.harvard.edu/abs/1996APS..MAR.B221I>)