

MARTIN SHOPTRAJANOV

CURRICULIM VITAE

BASIC INFORMATION

- **Name:** Martin Shoptrajanov
- **Date of birth:** March 29, 1978, Skopje, R. Macedonia
- **Citizenship:** Macedonian
- **Title of present position:** Assistant Professor
- **Highest degree earned:** PhD
- **Major discipline:** Topology
- **Research interests:** Topology, Dynamical systems
- **Office address:** Faculty of Natural Sciences and Mathematics, Department of Mathematics, p.o.box 162, Skopje, R. Macedonia
- **E-mail:** martinshoptrajanov@yahoo.com, martin@pmf.ukim.mk
- **Office phone:** +3893249664

ACADEMIC DEGREES

- March, 2002, BSc in Theoretical Mathematics, Ss. Cyril and Methodius University, Skopje, R. Macedonia (BSc thesis title: Characterization of Conjugated Spaces of Completely Continuous Operators/Карактеризација на Коњуиграни Простори од Комплетно Непрекинати Оператори, ментор: проф. д-р Новак Ивановски)
- July, 2008, MSc in Theoretical Mathematics, Ss. Cyril and Methodius University, Skopje, R. Macedonia (MSc thesis title: Recurrence in Continuous and Discrete Dynamical Systems/Рекурентност во Непрекинати и Дискретни Динамички Системи, ментор: проф. д-р Никита Шекутковски)
- October, 2012, PhD in Theoretical Mathematics, Ss. Cyril and Methodius University, Skopje, R. Macedonia (PhD thesis title: Intrinsic Shape in Dynamical Systems/Внатрешен Облик во Динамички Системи, ментор: проф. д-р Никита Шекутковски)

ACADEMIC AND PROFESSIONAL POSITIONS

- (2006-2009): Teaching assistant, Faculty of Mathematics and Natural Sciences, Institute of Mathematics, Skopje.
- (2009-2013): Teaching and research assistant, Faculty of Mathematics and Natural Sciences, Institute of Mathematics, Skopje.
- (2013-): Assistant professor, Faculty of Mathematics and Natural Sciences, Institute of Mathematics, Skopje.

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AWARDS

- The best graduated student in 2001/2002 academic year at Faculty of Natural Sciences and Mathematics, Ss. Cyril and Methodius University in Skopje with average grade degree 9.79.
 - 1994-1996, Prizes on National Mathematical Competitions for High School Students.
 - 1995, First place at the International Mathematical Competition Crnorizec Hrabar, R. Bulgaria.
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UNDERGRADUATE COURSES

Topology, Metric Spaces, Operational Research, Mathematical Analysis, Selected Parts From Differential Equations and Complex Functions, Simulation and Modeling, Mathematical modeling and Computer Simulations.

POSTGRADUATE COURSES

Modeling and Simulations, Stability of Dynamical Systems, Dynamical Systems with Applications using *Mathematica*.

MEMBERSHIPS IN PROFESSIONAL ORGANIZATIONS

- Member of Society of Mathematicians of Republic of Macedonia.
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SCIENTIFIC PUBLICATIONS

- **Martin Shoptrajanov**, N. Shekutkovski *Chain recurrence and topological transitivity in the plane*, Proceedings of the International scientific conference, 8-11.06.2011, FMNS, Blagoevgrad, Bulgaria Vol 1, 50-54.
- N. Shekutkovski, **M. Shoptrajanov**, *Intrinsic approach to shape of attractor in arbitrary metric spaces*, *Annuaire de l'insitut des mathematiques*, Skopje, Vol 42, 2013, 59-67.
- **M. Shoptrajanov**, *Intrinsic shape of unstable attractors*, Proceedings of the Fifth International Scientific Conference FMNS-2013, Blagoevgrad, R. Bulgaria 12-16 June 2013, Volume 1, 2013, 40-46.
- **M. Shoptrajanov**, N. Shekutkovski, *Characterization of Topologically Transitive Attractors for Analytic Plane Flows*, *Filomat* 29:1 (2015), 89-97, DOI 10.2298/FIL1501089S.
- **M. Shoptrajanov**, N. Shekutkovski, *Intrinsic Shape-Applications in Dynamical Systems*, Fifth Mathematical Conference of the Republic of Srpska, Trebinje, June 2015 (to appear).
- N. Shekutkovski, Z. Misajleski, G. Markoski, **M. Shoptrajanov**, *Equivalence of Intrinsic Shape, Based on V-Continous Functions and Shape*, *Bulletin Mathematique de la Societe des Mathematiciens de la Republique Macedoine*, 37, No.1(2015) 39-47.
- N. Shekutkovski, **M. Shoptrajanov**, *Intrinsic Shape of the Chain recurrent set*, *Topology and its Applications* 202 (2016) 117-126, DOI/10.1016/j.topol.2015.12.062.

TALKS ON CONFERENCES

- International Conference on Analysis Topology and its Applications, ATA-2010, Vrnjacka Banja, Serbia, 20-25.06.2010.
- International Scientific Conference FMNS-2011, Blagoevgrad, Bulgaria 08-11.06.2011.
- Third International Conference on Analysis Topology and its Applications, ICTA-2012, Skopje, R.Macedonia, 02-07.09.2012.
- International Conference of Applied and Industrial Mathematics CAIM, Bacau, Romania, 18-21.09.2014.
- V Congress of Mathematician of Macedonia, Ohrid, R. Macedonia, 24-27.09.2014.
- International Conference "Hamiltonian Dynamics, Non-autonomous Systems and Patterns in PDE's", Lobachevsky State University of Nizhny Novgorod, Russia, 10-15.12.2014.
- Dubrovnik VIII-Geometric Topology, Geometric Group Theory & Dynamical Systems, R. Croatia, 22-26.06.2015.
- 7th European Congress of Mathematics, July 18 - 22, 2016, Technische Universität, Berlin, Germany.
- International Conference on Topology and it's Applications, September 18-22, 2016, Ohrid, R. Mcedonia.

WORKSHOPS

- International Conference-School "Shilnikov Workshop", Lobachevsky State University of Nizhny Novgorod, Russia, 17-19.12.2014.

PROJECTS

- Fundaments of Shape Theory(Collaborative project with R. Croatia, project manager Prof. Dr. Nikita Shekutkovski, 2010-2012).
- Intrinsic shape and application in dynamical systems (2011-, project manager Prof. Dr. Nikita Shekutkovski).

BOOKS

- (grupa avtor) Mathematical competitions for primary school 2013, Macedonian Mathematical Society, Skopje, 2013.

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- (grupa avtori) Mathematical competitions for secondary school 2013, Macedonian Mathematical Society, Skopje, 2013.
- (grupa avtori) Mathematical competitions for primary school 2014, Macedonian Mathematical Society, Skopje, 2014.
- (grupa avtori) Mathematical competitions for secondary school 2014, Macedonian Mathematical Society, Skopje, 2014.
- (grupa avtori) Mathematical Olympiads 2015, Macedonian Mathematical Society, Skopje, 2015.

OTHER ACTIVITIES

- 2008 Coordinator at the XXV-Balkan Mathematical Olympiad (04-10 05 2008 Ohrid, Macedonia).
- Leader of the Macedonian team at the:
 - “XXVIII-Balkan Mathematical Olympiad 2011“ (04-08.05 2011 Jashi, Romania).
 - “XXXI-Balkan Mathematical Olympiad 2014“ (02-07.05 2014 Pleven, Bulgaria).
 - “South Eastern European Mathematical Olympiad for University Students 2015”(03-08. 03. 2015 Ohrid, Macedonia).
- Deputy Leader of the Macedonian team at the:
 - “XXXII-Balkan Mathematical Olympiad 2015“ (03-08.05 2015 Athens, Greece).

EDITOR

- Member of the editorial board of the popular mathematical publication Numerus, Union of Mathematicians of Macedonia, Skopje.
- Member of the editorial board of the popular mathematical publication Sigma, Union of Mathematicians of Macedonia, Skopje.