

Dr. Bojana Borovićanin, Associate Professor

Personal Information

Name: Bojana Borovićanin

Date of Birth: 09.04.1973.

Place of Birth: Kragujevac, Serbia

Education

- Doctoral studies in Mathematics (Discrete Mathematics):
University of Kragujevac, Faculty of Science (Mentor: Miroslav Petrović)
Doctor' dissertation: *Spectral properties of certain classes of graphs*, 05.03.2008.
- Master's studies in Mathematics:
- University of Kragujevac, Faculty of Science, 1996-2000.
Master's Thesis: *Some characterizations of graphs using the second largest eigenvalue*, 14.12.2000.
- Undergraduate studies in Mathematics:
University of Kragujevac, Faculty of Science, 1992-1996 (Average grade 9.58)
- High School: "Prva Kragujevačka Gimnazija", Kragujevac, 1988 – 1992 (Holder of the Vuk Karadžić diploma)
- Elementary School: "Stanislav Sremčević", Kragujevac, 1980 – 1988 (Holder of the Vuk Karadžić diploma)

Employment Information

- 2019 – : Associate Professor, Institute of Mathematics and Informatics, Faculty of Science, University of Kragujevac
- 2008 – 2019: Assistant Professor, Institute of Mathematics and Informatics, Faculty of Science, University of Kragujevac
- 2001 – 2008: Assistant, Institute of Mathematics and Informatics, Faculty of Science, University of Kragujevac
- 1997 – 2001: Teaching Assistant, Institute of Mathematics and Informatics, Faculty of Science, University of Kragujevac

Teaching Activities

Basic academic studies in Mathematics: Discrete Mathematics, Number Theory and Cryptography; previously taught Differential Equations, Modeling in Mathematics Teaching, Practical Training in School 1, and Number Theory.

Basic academic studies in Informatics: Mathematics 2; previously taught Theoretical Foundations of Informatics 2 and Theoretical Foundations of Informatics 3.

Master's academic studies in Mathematics: Selected Topics in Discrete Mathematics, Combinatorial Structures, and Graph Theory.

Doctoral academic studies in Mathematics: Selected Topics in Graph Theory, Spectral Graph Theory with Applications; previously taught Selected Topics in Discrete Mathematics, Graph Theory, and Spectral Matrix Theory.

Research Area

- Chemical Graph Theory
- Spectral Graph Theory

Projects:

- 2023 – 2025: Bilateral project of scientific and technological cooperation between the Republic of Serbia and the Republic of Slovenia: Topological indices of graphs and digraphs
- 2011 – 2019: Project #174033 (Ministry of Education, Science, and Technological Development of the Republic of Serbia): Graph Theory and Mathematical Programming with Applications in Chemistry and Computing
- 2006 - 2010: Project #174015 (Ministry of Science of the Republic of Serbia): Graph Theory and Mathematical Programming with Applications in Chemistry and Technical Sciences
- 2002 - 2006: Project #1389 (Ministry of Science and Environmental Protection of the Republic of Serbia): Graph Theory and Mathematical Programming with Applications in Chemistry and Transportation

Editorial Engagement in Scientific Journals:

- Member of the Editorial board of Kragujevac Journal of Mathematics

Peer Reviews of scientific papers for the following journals:

- Discrete Mathematics
- Ars Combinatoria
- MATCH
- Filomat
- Utilitas Mathematica
- Kragujevac Journal of Mathematics
- Communications in Mathematics
- Iranian Journal of Mathematical Chemistry
- Hacettepe Journal of Mathematics and Statistics
- Asian-European Journal of Mathematics
- Applied Mathematics and Computer Science
- Mathematica Bohemica
- Journal of Mathematical Inequalities

Engaged as a reviewer for Zentralblatt für Mathematik and Mathematical Reviews.

Membership in Professional and Scientific Organizations:

- Member of the Mathematical Society of Serbia
- Member of the Serbian Mathematical Scientific Society

Membership in Scientific and Organizing Committees of National and International Scientific Conferences:

- Member of the Scientific Committee of the 14th Serbian Mathematical Congress, held from May 16 to 19, 2018
- Member of the Organizing Committee of the 14th Serbian Mathematical Congress, held from May 16 to 19, 2018
- Member of the Organizing Committee of the national conference with international participation TEMATCOM, held from August 29 to 30, 2024.

Mentorships:

- Currently mentoring one doctoral dissertation, previously mentored one defended doctoral dissertation
- Mentored a large number of defended master's and undergraduate theses

Citations:

According to the data from the University Library in Kragujevac, Dr. Bojana Borovićanin's scientific papers were cited 287 times (without self-citations) between 1998 and June 2019.

Professional Positions:

- Since September 2020: Head of the Institute of Mathematics and Informatics at the Faculty of Science
- Since April 2017: President of the Committee for conducting entrance exams for admission to undergraduate academic studies of Mathematics and Informatics at the Faculty of Science
- Since August 2022: Member of the State Commission for mathematics competitions for elementary school students
- From 2018 to 2022: President of the Kragujevac branch of the Mathematical Society of Serbia
- From 2012 to 2018: Member of the Self-Evaluation Committee of the Faculty of Science
- From January 2018 to April 2022: Member of the Committee for Quality Assurance of the Faculty of Science
- Member of the Council of the Faculty of Science during the periods from April 2010 - April 2016 and April 2019 - April 2023
- Member of the University Commission for conducting entrance exams for admission of students in the first year of all types and levels of studies for the academic years 2017/18 and 2019/20
- Member of Accreditation Committees for undergraduate, master's, and doctoral academic study programs of Mathematics at the Institute of Mathematics and Informatics, Faculty of Science, in 2016, 2019, and 2023
- Since September 2015: Engaged in the Mathematics Workshop for young talents at the Faculty of Science in Kragujevac, working with students talented in mathematics

- Completed the Training Program for textbook evaluators organized by the Institute for the Advancement of Education and Upbringing of the Republic of Serbia
- Since 2021: Engaged as a reviewer for the National Accreditation and Quality Assurance Body in Higher Education