

# Mirjana Mikalački, PhD

~ Curriculum Vitae ~

## **PERSONAL DATA**

*Name:* Mirjana Mikalački (*maiden name: Rakić*)  
*Date and place of birth:* February 21, 1984, Novi Sad, Serbia.  
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## **PROFESSIONAL EXPERIENCE**

- 2019 - Associate Professor, University of Novi Sad, Faculty of Sciences, Department of Mathematics and Informatics
- 2014 - 2019 Assistant Professor, University of Novi Sad, Faculty of Sciences, Department of Mathematics and Informatics
- 2009 - Teaching Associate for Informatics and Computer Science for talented children at “Jovan Jovanović – Zmaj” grammar school in Novi Sad
- 2009 - 2014 Research and Teaching Assistant at University of Novi Sad, Faculty of Sciences, Department of Mathematics and Informatics
- 2007 - 2009 Junior Researcher and Teaching Assistant at University of Novi Sad, Faculty of Sciences, Department of Mathematics and Informatics

## **EDUCATION**

- 2014 PhD in Computer Science, University of Novi Sad, Faculty of Sciences, Department of Mathematics and Informatics (advisor – Miloš Stojaković)
- 2007 BSc in Computer Science (four-year study programme, graduate thesis in the field of Computer Graphics), University of Novi Sad, Faculty of Sciences, Department of Mathematics and Informatics, GPA: 9.93 (max 10.00)
- 1999 - 2003 Grammar school “Jovan Jovanović - Zmaj”, Novi Sad

## **RESEARCH INTERESTS**

Positional Games, Graph Theory, Graph Algorithms.

## **LANGUAGES**

1. **Serbian** – mother tongue
2. **English** – fluent: passed CPE (Certificate of Proficiency in English) exam of the University of Cambridge in 2005
3. **German** – very good comprehension and writing

## GRANTS - PARTICIPATION

- 2020 (Grant No. 142-451-3227/2020) Project of the Provincial Secretariat for Higher Education and Scientific Research “**Igre i algoritmi na grafovima sa primenama na IoT mrežama velikih skala**”
- 2018: Project of the Ministry of Education, Science and Technological Development within the activity "Development of Higher Education" **INTIMA/INF INoviranje Teorijsko-Informatičkih i MATematičkih predmeta na osnovnim akademskim studijama INFormatike**
- 2017 (Grant No. 142-451-3727/2017) Project of the Provincial Secretariat for Higher Education and Scientific Research “**Digitalni vodič kroz turističke atrakcije AP Vojvodine**”
- 2017 (Grant No. 142-451-2787/2017) Short term project of the Provincial Secretariat for Higher Education and Scientific Research “**Razvoj novih metoda distribuirane komunikacije i obrade informacija u 5G Internetu Stvari – pilot projekat pripreme EU H2020 aplikacije**”
- 2015-2018: SCOPES project 160453 *Developing Capacity for High-Productivity Large-Scale Computing*.
- 2013-2015: Grant No. HUSRB/1203/221/024 - IPA project “*Non-Standard Forms of Teaching Mathematics and Physics: Experimental and Modeling Approach*”.
- 2011-2014 (extended till 2019): Grant No.174019 of the Ministry of Education and Science of the Republic of Serbia, “*Numerical Linear Algebra and Discrete Structures*”.
- 2011-2014 (extended till 2016): Grant of the Secretariat of Science and Technological Development of the Autonomous Province of Vojvodina, “*Applied Linear and Combinatorial Algebra*”.
- 2010-2011: Grant No. HU-SRB/0901/221/088 - IPA project “*Teaching Mathematics and Statistics in Sciences: Modeling and Computer-aided Approach*”.
- 2009-2011: Grant No. 144025 of the Ministry of Science of the Republic of Serbia “*Numerical Linear Algebra, Stochastics and Statistics with Applications*”.

## ACTIVITIES WITHIN PROJECTS

1. M. Rakić, *Maths in modeling astronomical phenomena*, a chapter in electronic book Interesting Mathematical Problems in Sciences and Everyday Life (IPA HU-SRB/0901/2211/088), 2011.

## AWARDS

- Faculty award “PMF – to sam ja”, for promoting the Faculty of Sciences, 2017
- Faculty award for the best teaching assistant on the Department of Mathematics and Informatics according to the students’ opinion between 2009 and 2012.
- University award “*Aleksandar Saša Popović*”, for the best graduated Computer Scientist for achieving exceptional results in studying and in writing graduation thesis in academic year 2006/2007.
- Award from “*Eurobank EFG*”, within project “We invest in European values” for exceptional results in studying in 2006.

## SCHOLARSHIPS

- DAAD research scholarship for one month research stay at Free University Berlin (August 2013).
- Scholarship from the Serbian Ministry of Science, in academic year 2007/2008 and 2008/2009 - Researcher on the Project of The Serbian Ministry of Science: “*Numerical Linear Algebra, Stochastics and Statistics with Applications*” (grant no. 144025).

- Scholarship from German Government and Industry and fund “*dr Zoran Djindjic*”, which covered 3.5 months internship in Siemens AG in Germany in 2007.
- Scholarship from the Serbian Ministry of Education and Sports, the Fund for talented Students, in academic year 2006/2007.
- University scholarship for Talented Students of the University of Novi Sad in academic year 2005/2006.
- Scholarship from the Serbian Ministry of Education and Sports in academic year 2004/2005.

### **ORGANIZATION OF WORKSHOPS AND CONFERENCES**

1. *Second Novi Sad workshop on Foundations of Computer Science*, <https://www.dmi.uns.ac.rs/nsfocs/2017/index.html>, (joint with Miloš Stojaković, Marko Savić, Nikola Trkulja and Jelena Knežević), Novi Sad, Serbia, July 17-21, 2017.
2. *Novi Sad workshop on Foundations of Computer Science*, <https://www.dmi.uns.ac.rs/nsfocs/2015/index.html>, (joint with Miloš Stojaković, Marko Savić and Nikola Trkulja), Novi Sad, Serbia, July 20-24, 2015.
3. *Pannonian Mathematical Modelling conference* – in the auspice of the IPA project Non-Standard Forms of Teaching Mathematics and Physics: HUSRB/1203/221/024 – (joint with Arpad Takači, Đurđica Takači, Aleksandar Takači, Srđan Škrbić and Miroslav Marić), Novi Sad, Serbia, April 25-26, 2015.
4. *VI International Conference of Teaching and Learning mathematics* – in the auspice of the IPA project Non-Standard Forms of Teaching Mathematics and Physics: HUSRB/1203/221/024 – (joint with Arpad Takači, Đurđica Takači, Gordana Stankov, Aleksandar Takači, Srđan Škrbić and Miroslav Marić), Novi Sad, Serbia, January 23-25, 2015.

### **RESEARCH VISITS**

1. Research visit to TUHH Hamburg-Harburg, Germany, to work with the group of Prof. Anusch Taraz (24.11 – 30.12.2018).
2. Research visit to FU Berlin, Germany to work with the group of Prof. Tibor Szabó (1.8 – 31.8.2013).
3. Research visit to University of Birmingham, UK, to work with Dan Hefetz (3.3 – 9.3.2013)

### **TALKS**

1. *Positional games*, KWIM-Festtage, Konstanz, Germany (6 – 7.12.2018.) - invited talk
2. *Fast winning strategies in biased Maker-Breaker graph games*, TUHH, Hamburg, Germany (27th November 2018)
3. *Fast winning in positional games on graphs*, GAG Workshop, Lyon, France (23-25.10.2017)
4. *Winning fast in biased Maker-Breaker games*, EUROCOMB 2017, Vienna, Austria (28.8 – 2.9.2017)
5. *Maker-Breaker tournament game*, 7th European Congress of Mathematics, Berlin, Germany, (18.7 – 22.7.2016)
6. *Winning fast in fair biased Maker-Breaker games*, EUROCOMB 2015, Bergen, Norway (31.8 – 4.9.2015)
7. *How fast can Maker win in biased games on  $E(K_n)$ ?*, 5PCC (5<sup>th</sup> Polish Combinatorial Conference), Bedlewo, Poland (22.9 – 26.9.2014)
8. *Avoider-Enforcer star games*, Workshop in Combinatorics, Szeged, Hungary (7.3 – 9.3. 2014)
9. *Avoider-Enforcer star games*, EUROCOMB 2013, Pisa, Italy (9.9-13.9.2013)

10. *Doubly biased Maker-Breaker Connectivity game*, Combinatorics Seminar, University of Birmingham, UK (7<sup>th</sup> March 2013)
11. *Doubly biased Maker – Breaker Connectivity game*, 4PCC (4<sup>th</sup> Polish Combinatorial Conference), Bedlewo, Poland (17.9 – 21.9.2012)
12. *On doubly biased Maker-Breaker games*, CSM 2 (The second Conference of PhD Students in Mathematics), Szeged, Hungary (28.6 – 30.6.2012)
13. *"Maths, Computer graphics and the Solar System"*, Fall Cultural Festival, Szeged, Hungary (October 2011)
14. *Doubly biased Maker – Breaker Connectivity game*, Spring School in discrete probability, ergodic theory and combinatorics, Graz, Austria (4.4 – 15.4. 2011)
15. *Doubly biased Connectivity game*, CSM (The first Conference of PhD Students in Mathematics), Szeged, Hungary (29.6 – 2.7.2010)

## **TEACHING**

University of Novi Sad, Faculty of Sciences

1. Combinatorics, Probability and Statistics  
(for students of IT winter semester 2020/2021)
2. *Automata and algorithms*  
(for students of IT summer semester 2018/2019, 2020/2021)
3. *Programming 1*  
(for students of Mathematics summer semester 2020/2021)
4. *Office Software – Beginner's course*  
(for students of Physics and Chemistry 2014/15 .. 2018/19)
5. *Informatics*  
(for students of Optometry 2014/15 .. 2018/19)
6. *Office Software – Advanced course*  
(for students of Physics 2014/15 .. 2018/19)