

## CURRICULUM VITAE

Marija Mikić

### 1. Personal data:

- Date of birth: 12.5.1987.
- Place of birth: Smederevska Palanka, Serbia
- E-mail: [marijam@matf.bg.ac.rs](mailto:marijam@matf.bg.ac.rs), [marija.d.mikic@gmail.com](mailto:marija.d.mikic@gmail.com)

### 2. Education:

- 2011—2018: PhD studies (module Theoretical Mathematics and Applications) – [Faculty of Mathematics, University of Belgrade](#); The doctoral dissertation entitled by "[Asymptotic properties of solutions of Emden-Fowler equations and their generalizations](#)" was defended on February 13, 2018 with a grade of 10/10.
- 2010—2011: Master studies (module Theoretical Mathematics and Applications) – Faculty of Mathematics, University of Belgrade; Master's thesis entitled by "[Asymptotic properties of solutions of differential equations](#)" was defended with a grade of 10/10.
- 2006—2010: Undergraduate studies (module Applied Mathematics) – Faculty of Mathematics, University of Belgrade.

### 3. Work experience:

- November 2018—today: Faculty of Mathematics, University of Belgrade  
Assistant professor at Department of Differential equations
- December 2012—November 2018: Faculty of Mathematics, University of Belgrade  
Assistant at Department of Differential equations
- October 2010—December 2012: Faculty of Mathematics, University of Belgrade  
Teaching associate at Department of Differential equations
- October 2015—January 2016: [Faculty of Technology and Metallurgy, University of Belgrade](#)  
Assistant at Department of Mathematical science

### 4. Other professional activities:

- 2011—today: Member of the scientific project 174001 entitled by "Dynamics of Hybrid Systems of Complex Structures. Material Mechanics".
- 2016—today: Coordinator of the scientific project 174001 for the Faculty of Mathematics.
- 2013—today: Professor for preparation classes for entrance exam at Faculty of Mathematics.
- 2016—today: Coordinator for preparation classes for entrance exam at Faculty of Mathematics.
- 2017—today: Member of Council at Faculty of Mathematics University of Belgrade.
- Professional Associate of accompanying materials in Mathematics for the 6<sup>th</sup> grade of Elementary School, publisher Novi Logos, 2016.
- One of the authors of the accompanying materials in Mathematics for the 7<sup>th</sup> grade of Elementary School, publisher Novi Logos, 2020.  
Available at: <https://www.yumpu.com/xx/document/fullscreen/62957575/-7->

- Mathematics Lecturer for 4<sup>th</sup> grade of High School in the Project On-line Education on Serbian National TV channel during Covid-19 pandemic, 2020.
- Author of the book Ordinary Differential equations, in the process of writing.

#### 5. Mentor of Master's thesis:

- Differential equations in mathematical modelling;
- Stability of solutions of systems of differential equations;
- Differential equations and oscillatory nature of biological processes.

#### 6. Scientific papers:

- Marija Mikić, Raca Tododsijević, Dragan Urošević, [\*Less is more: General variable neighborhood search for the capacitated modular hub location problem\*](#), Computers & Operations Research, vol. 110, pp. 101–115 (2019), ISSN: 0305-0548.
- Đorđe Krtinić, Marija Mikić, [\*Refinement of Hermite-Hadamard type inequalities for s-convex functions\*](#), Miskolc Mathematical Notes, vol. 19, no. 2, pp. 997–1005 (2018), Print ISSN: 1787-2405, Online ISSN: 1787-2413.
- Đorđe Krtinić, Marija Mikić, [\*On the Cauchy problem for a generalized Emden-Fowler type equation\*](#), Mathematical Notes, vol. 105, no. 1, pp. 148–152 (2019), Print ISSN: 0001–4346.
- Đorđe Krtinić, Marija Mikić, [\*Note on asymptotical behavior of solutions of Emden-Fowler equation and the existence and uniqueness of solution of some Cauchy problem\*](#), Miskolc Mathematical Notes, vol. 18, no. 1, pp. 285–294 (2017), Print ISSN: 1787-2405, Online ISSN: 1787–2413.
- Jelena Golubović, Ana Protić, Mira Zečević, Biljana Otašević, Marija Mikić, [\*Artificial neural networks modeling in ultra performance liquid chromatography method optimization of mycophenolate mofetil and its degradation products\*](#), Journal of Chemometrics, vol. 28, no. 7, pp. 567–574, (2014), Online ISSN:1099-128X.
- Jelena Golubović, Ana Protić, Mira Zečević, Biljana Otašević, Marija Mikić, Ljiljana Živanović, [\*Quantitative structure retention relationships of azole antifungal agents in reversed-phase high performance liquid chromatography\*](#), Talanta, vol. 100, pp. 329–337, (2012), ISSN: 0039-9140.
- Marija Mikić, [\*Note about asymptotic behaviour of positive solutions of superlinear differential equation of Emden-Fowler type at zero\*](#), Kragujevac Journal of Mathematics, vol. 40, no. 1, pp. 105–112 (2016), Print ISSN: 1450-9628, Online ISSN: 2406-3045.

#### 7. Scientific papers in the review process:

- Đorđe Krtinić, Marija Mikić, Existence and uniqueness of the solution of some Cauchy problems for the Emden-Fowler equation;
- Katica (Stevanović) Hedrih, Marija Mikić, Rolling a heavy ball over a curvilinear path of specific shapes in the real plane.

#### 8. Invited Lecture Presentation:

- [\*Asymptotic properties of solutions of Emden-Fowler equations and their generalisations\*](#), Seminar Mechanics of Machines and Mechanisms – Models and Mathematical Methods, Belgrade, April 16, 2019, Mathematical Institute of SASA.

## 9. Publications:

- Marija Mikić, Marija Stamenković, *Three parametric testing of singularity and position of nonlinear dynamics relative balance of heavy material particle on eccentrically rotating rough circle line*, Scientific review, series: Scientific And Engineering – Special Issue Nonlinear Dynamics S2, pp. 325–332 (2013).
- Marija Mikić, Marija Stamenković, *Testing of singularity and position of nonlinear dynamics relative equilibrium of heavy material particle on eccentrically rotating rough circle line, with constant angular velocity*, Proceedings of the 4<sup>th</sup> International Congress of Serbian Society of Mechanics, pp. 983–988 (2013).
- Katica (Stevanović) Hedrih, Marija Mikić, *Rolling a heavy ball over parabola and its generalisations in the real plane*, Booklet of Abstracts, Symposium Nonlinear Dynamics Scientific, 2019.

## 10. Conferences:

- Katica (Stevanović) Hedrih, Marija Mikić, *Rolling a heavy ball over parabola and its generalisations in the real plane*, Nonlinear Dynamics-Scientific work of prof. dr. Katica (Stevanović) Hedrih, Belgrade, Serbia, 2019.
- Đorđe Krtinić, Marija Mikić, *Note of some asymptotic properties of solutions of Emden-Fowler equation*, VIII Symposium Mathematics and Applications, Belgrade, Serbia, 2017.
- Marija Mikić, Julka Knežević–Miljanović, *Some asymptotic properties of second order differential equations*, XIII Serbian Mathematical Congress, Vrnjačka Banja, Serbia, 2014.
- Marija Mikić, Marija Stamenković, *Three parametric testing of singularity and position of nonlinear dynamics relative balance of heavy material particle on eccentrically rotating rough circle line*, 8th European Nonlinear Dynamics Conference, Vienna, Austria, 2014.
- Marija Mikić, Marija Stamenković, *Testing of singularity and position of nonlinear dynamics relative equilibrium of heavy material particle on eccentrically rotating rough circle line, with constant angular velocity*, Fourth Serbian (29<sup>th</sup> Yu) Congress on Theoretical and Applied Mechanics, Vrnjačka Banja, Serbia, 2013.
- Marija Mikić, Marija Stamenković, *Three parametric testing of singularity and position of nonlinear dynamics relative balance of heavy material particle on eccentrically rotating rough circle line, with constant angular velocity*, Symposium Nonlinear Dynamics, Milutin Milanković, Multidisciplinary and Interdisciplinary Applications, Belgrade, Serbia, 2012.

## 11. School:

- Sarajevo Stochastic Analysis Winter School 2019