

DRAGAN PREKRAT

Employment Information:

- 2025 – present, assistant professor, University of Belgrade – Faculty of Pharmacy
- 2023 – 2025, sr. teaching assistant, University of Belgrade – Faculty of Pharmacy
- 2022 – 2023, teaching assistant, University of Belgrade – Faculty of Pharmacy
- 2017 – 2022, research assistant, University of Belgrade – Faculty of Physics
- 2014 – 2022, jr. teaching assistant, University of Belgrade – Faculty of Pharmacy
- 2013 – 2014, teacher, Mathematical Highschool, Belgrade
- 2011 – 2017, jr. research assistant, University of Belgrade – Faculty of Physics
- 2011, jr. teaching assistant, University of Belgrade – Faculty of Physics

Education:

- 2010 – 2023, PhD, University of Belgrade – Faculty of Physics
- 2010 – 2011, student exchange, LMU, Munich
- 2009 – 2010, MSc courses, University of Belgrade – Faculty of Physics
- 2001 – 2009, BSc, University of Belgrade – Faculty of Physics

Training:

- 2024, short-term scientific mission, COST action CA21109, FMFI UK, Bratislava
- 2019, education *Building an appropriate relationship with students and rules of business communication*
- 2018, short-term scientific mission, COST action MP1405, DIAS, Dublin
- 2017, short-term scientific mission, COST action MP1405, DIAS, Dublin

Academic awards and distinctions:

- 2014, student-achievement teacher recognition, National Physics competition
- 2010 – 2011, scholarship, SEENET-MTP and LMU Munich
- 2009 – 2010, scholarship, Foundation *Đoka Vlačković*
- 2009, award for the best BSc thesis at the University of Belgrade – Faculty of Physics, Foundation *Prof. dr Ljubomir Ćirković*
- 1997 – 2006, scholarship, National Foundation for the Development of Art and Science Youth

Teaching activities:

- 2014 – 2025, Physics Lab (in Serbian and English), University of Belgrade – Faculty of Pharmacy
- 2022, BSc thesis defense committee member, Dept. of Physics and Mathematics, University of Belgrade – Faculty of Pharmacy

Textbooks:

- Neli Kristina Todorović-Vasović, Dragan Prekrat, Opšta fizika, Univerzitet u Beogradu – Farmaceutski fakultet, Beograd, 2022, ISBN 978-86-6273-083-1
- Neli Kristina Todorović-Vasović, Dragan Prekrat, Praktikum iz fizike, Univerzitet u Beogradu – Farmaceutski fakultet, Beograd, 2024, ISBN 978-86-6273-084-8
- Neli Kristina Todorović-Vasović, Dragan Prekrat, Praktikum iz fizike, Univerzitet u Beogradu – Farmaceutski fakultet, Beograd, 2022, ISBN 978-86-6273-084-8

Activities within the Faculty:

- 2023 – present, Knowledge Retention Test editor
- 2022, BSc thesis defense committee member, Dept. of Physics and Mathematics
- 2022, MATLAB dissemination seminar, Department of Physics and Mathematics
- 2022 – present, inventory committees' member
- 2022 – present, entrance exam supervisor
- 2019, Dept. of Physics and Mathematics Lab presentation, *Doors Open Day*

Activities within wider Academic Community:

- 2022 – present, contact person, Dept. of Physics and Mathematics CEEPUS node
- 2015, organizing committee member, *GR100 Centennial of General Relativity*

Projects:

- 2011 – 2019, ON-171031 *Physical Implications of Modified Spacetime*

Publications:

- **Prekrat D**, Todorović-Vasović KN, Ranković D, Kováčik S, Tekel J. Approximate treatment of noncommutative curvature in quartic matrix model. JHEP 01 (2023) 109.
[https://doi.org/10.1007/JHEP01\(2023\)109](https://doi.org/10.1007/JHEP01(2023)109)
- Kostić S, Vasović N, Todorović K, **Prekrat D**. Instability Induced by Random Background Noise in a Delay Model of Landslide Dynamics. Appl. Sci. 2023, 13(10), 6112.
<https://doi.org/10.3390/app13106112>
- **Prekrat D**. Renormalization footprints in the phase diagram of the Grosse-Wulkenhaar model. Phys. Rev. D 104, 114505 (2021).
<https://doi.org/10.1103/PhysRevD.104.114505>
- **Prekrat D**, Todorović-Vasović KN, Ranković D. Detecting scaling in phase transitions on the truncated Heisenberg algebra. JHEP 03 (2021) 197.
[https://doi.org/10.1007/JHEP03\(2021\)197](https://doi.org/10.1007/JHEP03(2021)197)
- Burić M, Nenadović L, **Prekrat D**. One-loop structure of the $U(1)$ gauge model on the truncated Heisenberg space. EPJ C 76, 672 (2016).
<https://doi.org/10.1140/epjc/s10052-016-4522-x>