

## **DRAGAN PREKRAT**

### **Employment Information:**

- 2023 – present, sr. teaching asst., 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:**

- 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 – present, 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, 2022, ISBN 978-86-6273-084-8

### **Activities within the Faculty:**

- 2023, 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, inventory committee member, Department of Physics and Mathematics
- 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:**

- Srdjan Kostić, Nebojša Vasović, Kristina Todorović, **Dragan Prekrat**, Instability Induced by Random Background Noise in a Delay Model of Landslide Dynamics, *Appl. Sci.* 2023, 13(10), 6112, DOI:10.3390/app13106112
- **D. Prekrat**, K. N. Todorović-Vasović, D. Ranković, S. Kováčik, and J. Tekel, Approximate treatment of noncommutative curvature in quartic matrix model, *JHEP* 01 (2023) 109, DOI:10.1007/JHEP01(2023)109

- **Prekrat, D.**, Renormalization footprints in the phase diagram of the Grosse-Wulkenhaar model, Phys. Rev. D 104, 114505 (2021), DOI:10.1103/PhysRevD.104.114505
- **Prekrat, D.**, Todorović-Vasović, K.N. and Ranković, D., Detecting scaling in phase transitions on the truncated Heisenberg algebra, JHEP 03 (2021) 197, DOI:10.1007/JHEP03(2021)197
- Burić, M., Nenadović, L. and **Prekrat, D.**, One-loop structure of the  $U(1)$  gauge model on the truncated Heisenberg space, EPJ C 76, 672 (2016), DOI:10.1140/epjc/s10052-016-4522-x