

## EDUCATION

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### Doctoral study in Physics

Faculty of Physics, University of Rijeka

Rijeka, Croatia

2020–Current

- Research field: Condensed matter physics

### Master of Engineering and Material Physics

Department of Physics, University of Rijeka

Rijeka, Croatia

2017–2019

- Thesis: Dichroic Fabry-Pérot Resonator, supervisor: Associate Professor Marin Karuza, PhD
- MAGNA CUM LAUDE

### Baccalaurea of Physics

Department of Physics, University of Rijeka

Rijeka, Croatia

2014–2017

- Thesis: Sagnac interferometer, supervisor: Associate Professor Marin Karuza, PhD
- SUMMA CUM LAUDE

## EXPERIENCE

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### Assistant

Faculty of Physics and Centre for Micro and Nanosciences and Technologies, University of Rijeka

Rijeka, Croatia

2019 –Current

- Main research interests: photocatalytic activity of semiconductor thin films
- Using experimental techniques: UV-Vis spectroscopy, Scanning Electron Microscopy (SEM), Atomic Layer Deposition (ALD), X-ray Photoelectron Spectroscopy (XPS)
- preparing samples for Transmission Electron Microscopy (TEM)

## CONFERENCES AND WORKSHOPS

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4th Croatian Microscopy Congress

18 – 20 May 2022

Poreč, Croatia

PlasmaTech 2022

27 - 29 April 2022

Barcelona, Spain

27th International Scientific Meeting on Vacuum Science and Technique

9 - 10 September 2021

Gozd Martuljek, Slovenia

Microscopy Conference 2021

22 - 26 August 2021

Wien, Austria

Solid-State Science Research 2021

10 - 11 June 2021

Zagreb, Croatia

2020 EFCATS (European Federation of Catalysis Societies) Summer School

16 - 19 September 2020

Portorose, Slovenia

1st Student Congress on Material Engineering

28 February - 1 March 2019

Faculty of Chemical Engineering and Technology, University of Zagreb

Atomic Layer Deposition: Fundamentals and Applications

21 - 22 September 2017

Department of Physics, University of Rijeka

## PUBLICATIONS

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- [1] A. Omerzu, R. Peter, **D. Jardas**, I. Turel, K. Salamon, M. Podlogar, D. Vengust, I. Jelovica Badovinac, I. Kavre Piltaver, and M. Petravic, “Large enhancement of photocatalytic activity in ZnO thin films grown by plasma-enhanced atomic layer deposition”, *Surf. Interfaces*, vol. 23, p. 100984, 2021, ISSN: 2468-0230.
- [2] E. Kamenar, M. Perčić, S. Zelenika, I. Šarić, **D. Jardas**, and P. Gljušćić, “LFM characterization of TiO<sub>2</sub> films on a nanoindenter”, 2019.

## TEACHING

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- **Teaching assistant**  
Medical Physics and Biophysics (Faculty of Medicine): 2019/2020, 2020/2021, 2021/2022  
Physics (Department of Biotechnology): 2019/2020, 2020/2021, 2021/2022  
Physics II (Faculty of Engineering): 2019/2020  
Solid State Physics I (Faculty of Physics): 2020/2021, 2021/2022
- **Demonstrator** academic year 2018/2019  
Combinatorics (Department of Mathematics, University of Rijeka)

## SKILLS

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- **Digital skills:** LaTeX, Origin, QtiPlot, Wolfram Mathematica, LabView
- **Professional skills:** UV-Vis spectroscopy, SEM, ALD, TGA, XPS, SIMS preparation of TEM samples

## LANGUAGES

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- **Mother tongue:** Croatian
- **English:** Proficient user
- **Italian:** Basic User

## SCHOLARSHIPS AND AWARDS

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| • Scholarship of the Municipality of Viškovo             | 2010–2019 |
| • Scholarship for excellence in the University of Rijeka | 2014–2018 |

## EXTRACURRICULAR ACTIVITIES

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| • Member at Croatian Microscopy Society                                    | 2022–Current |
| • Member at Society of Mathematicians and Physicists<br>- <i>treasurer</i> | 2022–Current |