

Ivan Petrović

DOB 15/09/1999

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Education

PhD Studies (Medical Imaging): Medical University of Vienna, September 2025-
Vienna

Senior supervisor: *Ao.Univ.Prof.ⁱⁿ Dr.ⁱⁿ med.univ. Ekaterina Pataraiia*, PhD, MBA

Junior supervisor: *Dr. Bernhard Strasser*

- Designing and validating 7T deuterium metabolic imaging (DMI) for the preoperative assessment of focal epilepsy patients.
- Implementing 7T quantitative susceptibility mapping (QSM) in the same cohort to provide iron/myelin-sensitive biomarkers that complement epileptogenic zone localization.

PhD Studies: Faculty of Medicine, University of Novi Sad, November 2024- September 2025
Novi Sad

Medical Doctor: Medicine, Faculty of Medicine, University of Novi Sad, July 2018 – July 2024
Novi Sad

- GPA 10.00/10.00
- Scholarship for Extremely Gifted Students, Ministry of Education, Science and Technological Development of Serbia (2019 - 2023).
- Scholarship of the foundation "Privrednik" (2019 - 2024).
- Scholarship of the foundation "Rea" (2024).
- Scholarship of the Fund for Young Talents, Ministry of Science, Technology, and Innovation of Serbia (2024).
- Award for Remarkable success through studies (2021 - 2023).

Experience

May 2026 -

RRFS Representative - Neuroimaging
European Academy of Neurology

Vienna

November (17-28.2025)

Clinical fellow (Mentor: Prof. Dr. med. Bastian Cheng, FESO)

Hamburg

Department of Neurology, University Medical Center Hamburg Eppendorf

- Training in multimodal stroke imaging, contemporary acute stroke treatment, and advanced diagnostic pathways at a high-volume tertiary center.
- Exchange funded by the European Stroke Organisation (ESO) through the *Department-to-Department Visit Programme*.

June 2025 – August 2025

Observer (Mentor: AP. Prof. Priv.-Doz. Dr. Lukas Haider, MBA, PhD, EDiNR)

Vienna

Department of Neuroradiology, University Clinic for Radiology and Nuclear Medicine, Medical University of Vienna

- Gaining insights into the role of the neuroradiologist in different pathologies (demyelinating disorders, neurodegenerative disorders, epilepsy, stroke, tumors).
- Participation in interdisciplinary boards (tumor, stroke, epilepsy).
- Participation in preparing radiological reports under supervision

April 2025 – June 2025

Clinical fellow (Mentor: Ao.Univ.Prof.ⁱⁿ Dr.ⁱⁿ med.univ. Ekaterina Patariaia, PhD, MBA)

Epilepsy Monitoring Unit, University Clinic for Neurology, Medical University of Vienna

Vienna

- Continuous video-EEG monitoring to diagnose and classify seizure types and localize seizure onset zones.
- Assessment of candidates for epilepsy surgery, including functional mapping and seizure focus identification.
- Collaboration with neurologists, radiologists, and neurosurgeons to optimize individualized treatment plans.

January 2025 –

Resident and Research Fellow

European Academy of Neurology

April 2024 – June 2024

Research trainee (Mentor Assoc. Prof. Wolfgang Bogner, PhD)

Department of Biomedical Imaging and Image-guided Therapy, Medical University of Vienna

Vienna

- Analyzed metabolic imaging data using advanced techniques (Deuterium Metabolic Imaging).
- Conducted analysis of high-field MRI data.
- Implemented deep learning algorithms for data analysis.
- Passed exam - Functional Magnetic Resonance Imaging (fMRI) ; Grade: excellent (1)

February 2022 – December 2024

Student Member

European Academy of Neurology

Vienna

- Student member of the European Academy of Neurology (EAN) Scientific Panels: Clinical Neurophysiology, Epilepsy, and Stroke.
- Training in EAN Advocacy for Neurology and Brain Health.

July 2023 - August 2023

Student trainee

Neurology department, Christian Doppler Clinic

Salzburg

- Conducted stroke data analysis using advanced analytical techniques like machine learning.
- Collaborated with the epilepsy team, contributing to diagnostics and treatment efforts.

October 2021 - January 2023

Student Assistant

Department of Pathology, Faculty of Medicine, University of Novi Sad

Novi Sad

- Arranged resource materials in preparation for classes.
- Supported teachers with classroom management to provide a productive and positive learning environment.
- Facilitated support during practical general and systemic pathology lessons, and assisted students with their assignments.

September 2022

Student trainee

Neurology department, Christian Doppler Clinic

Salzburg

- Acquired new skills by shadowing senior staff.
- EEG analysis in epilepsy and ICU patients.

- Obtained a certificate from the 2nd International Teaching Course on Continuous EEG in the ICU at the 8th London-Innsbruck Colloquium on Status Epilepticus and Acute Seizures.

March 2021 - November 2022

Member of the Organizing Committee

Union of Students of the Faculty of Medicine and Young Healthcare Workers of Novi Sad *Novi Sad*

- Contributed to the development of the Local Policy Action Plan for youth in Novi Sad (2023-2025).
- Collaborated as a member of the working group for the Youth Health Charter with the National Youth Council of Serbia (July 2022).
- Organized educational conferences for medical students (IMSCNS).

Skills

- Proficient in **Microsoft Office** suite, including Word, PowerPoint, and Excel, developed through active usage.
- Experienced in **Python** for data analysis, visualization, as well as machine and deep learning projects (PyTorch) applied to real world data sets.
- Strong **soft skills** including communication, teamwork, problem-solving, adaptability, and leadership, cultivated through active participation in collaborative projects and professional organization memberships.
- **MRI data analysis**, including experience with **ultra-high-field (7T) MRI datasets**.

Languages

Serbian: First language

English:	C1	German:	C1
Advanced		Advanced	