

Ivan Ivani, PhD



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Date of birth: 6th February 1986

I am a Data Scientist with a scientific background in bioinformatics and over five years of experience in data analytics within an international organization across various contexts. I have managed small data teams and implemented complex projects. I am keen to bring my international experience, problem-solving mindset, and enthusiasm to a new and challenging environment, particularly focusing on financial consulting and treasury management.

PROFESSIONAL EXPERIENCE

Senior Data Analyst Oct 2023 – Present User Experience R&D – Continental – Serbia

- Established and maintained an efficient data management system for optical experiments and production data, supporting R&D teams globally.
- Specialized in preparing graphs and processing diverse datasets from optical experiments and production End-of-Line (EOL) plants.
- Created interactive dashboards using Python and PowerBI to facilitate seamless collaboration and informed decision-making.
- Contributed to the team's expansion and development of Data Science infrastructure and streamlined data processes.

Data Analytics and Management Lead Jan 2021 – Jun 2023 Protection Unit – ICRC – Jerusalem and Caracas

- Handled highly sensitive personal data, ensuring secure and ethical management.
- Prepared intricate reports and infographics for strategic decision-making.
- Led small teams, fostering collaboration and efficient data handling, and trained colleagues in complex SQL and Python data processes.
- Acted as a Project Manager for the Jerusalem Delegation, steering the Family Visit Program through feasibility and planning phases.

Data Analyst Jul 2018 – Dec 2020 Protection Unit – ICRC – Belgrade, Geneva and Damascus

- Created an automated dashboard for the Syrian delegation that integrates external information sources into the ICRC PCP framework, mapping events and providing statistical feedback.
- Developed a dashboard at HQ visualizing ETD request flows over time and country, aiding in strategic planning.
- Supported delegates and operations with reports and analyses, enhancing data-driven decision-making.
- Evaluated and improved the quality of Prot6 databases and infrastructure.

Research Scientist Jan 2010 – Jun 2017 Institute for Research in Biomedicine - IRB Barcelona, Spain

- Conducted molecular dynamics simulations of DNA and protein molecules, optimizing software tools like AMBER and Gromacs.
- Applied advanced statistical methods to interpret biological data from experiments and simulations.
- Set up a NoSQL database for storing MD simulations and contributed to disseminating research findings through graphical visualizations and scientific publications.
- My most notable work in Nature Methods: Ivan Ivani et al. Nature methods 13, no. 1 (2016): 55-58.
- List of all my publications: <https://scholar.google.com/citations?user=GqCZ-0QAAAAJ&hl=en>

Intern Scientist May 2015 – Aug 2015

Stanford University and Pfizer, USA

- I spent time as a visiting researcher in the group of Eric Kool, working on a project of software optimization. Worked on software optimization for computational biology simulations in collaboration with the pharma industry.
- Conducted experiments on short DNA sequences and parameterized molecular dynamics software based on experimental findings.

EDUCATION

PhD in Bioinformatics (cum laude)

Universitat de Barcelona, Spain

Dec 2016

MSc in Biophysics (Top 2% of the class)

Charles University in Prague, Czechia

Jun 2010

BSc in Physics

Charles University in Prague, Czechia

Aug 2008

SKILLS AND AWARDS

Languages

- **English** (Fluent), **Czech** (Fluent), **Spanish** (Fluent), **Russian** (Conversational), **French** (basic), **Serbian** (Native).

Tools

- Programming: Python, SQL
- Visualization: Matlab, Tableau, Power BI.
- Office tools: Excel, Power Point, Word, Minitab

Awards and honours

- EMBO fellowship, Stanford, USA
- IUBMB Young Researcher fellowship, Taipei, Taiwan
- FEBS Young Researcher fellowship, St. Petersburg, Russia
- IRB Barcelona PhD fellowship, Barcelona, Spain
- Charles University scholarship (top 5% of students), Prague, Czechia

HOBBIES

I am a nature lover, a sportsman and a fan of climbing. I love travelling, gastronomy and discovering new things. I enjoy constructive discussions and a collaborative environment.