

# Dr. Radmila Faizova

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## STRENGTHS

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- Organic and inorganic synthesis
- Analytical skills
- Pharmaceutical Industry experience
- Presentation skills
- Scientific communication
- Working in interdisciplinary teams

## EDUCATION

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### EPFL

Lausanne, Switzerland

PhD (Inorganic/Coordination Chemistry), Prof. Mazzanti's group

Sept 2016–Dec 2020

- **Title:** Synthesis and reactivity of environmentally relevant uranium species
- **Main goals:** Stabilization of uranyl(V) in water, investigation of the stability, reactivity and electronic structure of uranium species under environmentally relevant conditions; collaborative development of the bacterial reduction mechanism of uranium

### University of Nottingham

Nottingham, UK

BSci + MSci Chemistry with a Year in Industry

Sept 2011–Jul 2015

- **1st Class Degree**
- **Thesis:** Development of a novel catalyst-free trifluoroethylation reaction
- **Main achievement:** Nature Communications article published (ref. 8)

## PROFESSIONAL EXPERIENCE

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### CHUV/UNIL/LICR

Lausanne, Switzerland

Postdoctoral Researcher in Translational Radiopharmaceutical Sciences

May 2021–Now

- **Project:** Radiolabeled Diabodies for Targeted Imaging in Immuno-Oncology
- **Acquired skills:** peptide synthesis purification, HPLC, bioconjugation, radiochemistry, *in vitro* and *in vivo* experimentation, microPET/SPECT/CT, radioimmunotherapy

### EPFL

Lausanne, Switzerland

Graduate Student in Coordination Chemistry group

Sept 2016–Dec 2020

- **Project:** Development of environmentally relevant chemistry of uranium
- **Acquired skills:** Air/moisture sensitive and a wide range of analytical techniques, maintenance of advanced laboratory equipment, C lab experience, scientific writing, student supervision, project management

### Novartis Pharma

Basel, Switzerland

Postgraduate internship in Chemical & Pharma Development group

Jun 2015–Dec 2015

- **Project:** Scale-up flow crystallization development
- **Acquired skills:** Large scale crystallization, FBRM, PSD, statistical data analysis (Minitab), work in interdisciplinary team

- **Project:** Anticancer drug development
- **Acquired skills:** Medicinal and parallel synthesis, LC/MS, HPLC & MS and their basic maintenance

## PROFESSIONAL SKILLS

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- **Synthetic:** Radiochemical, organic, coordination and inorganic synthesis, SPPS, handling air and moisture sensitive compounds
- **Analytical:** Multi-nuclear NMR EPR, IR UV-Vis-NIR fluorescence spectroscopy, X-ray crystallography, XANES, XPS, MS, LC-MS, HPLC, spectroscopy, cyclic voltammetry, chronoamperometry, microanalysis, FBRM
- **Laboratory:** *in vitro* and *in vivo* skills, lyophilization, maintenance of the glove boxes and advanced analytical equipment, autoclave and centrifuge use, general responsibility for the safety and functional workspace in the laboratory and students supervision
- **IT:** Microsoft Office, Igor Pro, Origin, MestreNova, Olex, Mercury, EC-lab, ChemDraw, Perkin-Elmer UV & IR, Chemical & Crystallographic databases, Adobe Illustrator, Python
- **Project Management:** Inter-cultural communication and inter-disciplinary project coordination
- **Training:** Radiation protection, project management and personal efficiency

## ADDITIONAL EXPERIENCES

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- **Teaching:** General and organic chemistry laboratory I; Mathematics 1A; Advanced general chemistry; General chemistry I; Chemistry analytic laboratory II; Risk management
- **Student Supervision:** Supervision of two Master's students during my doctoral thesis. Specifically, scientific education on the topic, development of the project to produce novel outcomes and training in laboratory techniques such as the use of Schlenk lines and glove boxes.

## AWARDS

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- Best Poster Presentation Award (Runner-up) SCS 2019
- National Security Education Center at Los Alamos National Lab Award
- SCNAT Chemistry Travel Award
- My Thesis in 180 Seconds competition (2nd place at EPFL)
- Bravo Award (Novartis) - Personal contribution during the internship 2015
- CHAD Award (Novartis) - Development of Next Generation Crystallization

## OTHER

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- **Languages**  
English – fluent (C2); Russian – native speaker; French – advanced (C1); Estonian – intermediate (B1); German – basic (A2); Spanish – elementary (A2)
- **Interests**  
Sharing my passion for science through different education outreach efforts. I also enjoy spending time in the mountains, as well as practicing and teaching yoga and latin dance.