French
Native

English
Fluent C1

German
Standard B2

Serbian
Native

EDUCATION

MSC IN PHYSICS
Condensed Matter & Nanophysics
2018 - 2020 | UNIVERSITY OF STRASBOURG
Faculty of Physics and Engineering & IPCMS
Magistère of Fundamental Physics
QMat International Graduate School
With high honors - Valedictorian

BACHELOR OF SCIENCE
Physics
2015 - 2018 | UNIVERSITY OF STRASBOURG
Faculty of Physics and Engineering
Magistère of Fundamental Physics
With honors

2-YEAR DEGREE : MATHEMATICS
Double Degree with Physics
2015 - 2017 | UNIVERSITY OF STRASBOURG
Faculty of Mathematics & Computer Science
Double degree : Physics & Mathematics
With honors

SCIENTIFIC HIGH-SCHOOL DIPLOMA
2013 - 2015 | LYCEE JEAN MERMOZ
Saint-Louis
With high honors

CONTACT

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Strasbourg, FR

Family address:
10 cité du stade, 68300
Saint-Louis, FR

Denis Janković

23 YEARS OLD - PHD STUDENT

- Part of the Quantum Dynamics of Nano-objects (QDYNO) group at the Institut de Physique et de Chimie des Matériaux de Strasbourg (IPCMS).
- Part of the Ruben Group at the Karlsruhe Institute of Technology (KIT).
- Physics Graduate | MSc Condensed Matter and Nanophysics.
- Part of the Quantum Sciences and Nanomaterials (QMat) International Graduate School and the International Doctoral Program (PDI) of the European Doctoral College.

EXPERIENCE

2020-2023 Current
IPCMS (Strasbourg) Cotutelle with the KIT (Karlsruhe)
Department of Ultrafast Optics and Nanophotonics
PhD position
Supervisor : Pr. Dr. Paul-Antoine Hervieux
Co-Supervisor : Pr. Dr. Mario Ruben (KIT)

Hyperfine interactions in lanthanide-organic complexes for quantum information processing.

To obtain a theoretical model taking into account all useful parameters to optimize read-out, manipulation (optical or electrical), entanglement and coherence times of nuclear qudits. I am computing and diagonalizing the hamiltonian matrix of valence electrons of a central lanthanide atom, whose nucleus is accessible throught the hyperfine interaction.

2020
IPCMS (Strasbourg)
Department of Ultrafast Optics and Nanophotonics
M2 Internship
Supervisor : Pr. Dr. Paul-Antoine Hervieux

Theoretical study in the case of PrCl3 of the observed linear Stark Effect in the Single Molecule Magnet Pc2Tb used for Quantum Information Processing. In collaboration with Pr. Dr. Mario Ruben and Pr. Dr. Wolfgang Wernsdorfer.

2019
Faculty of Physics - University of Basel
Condensed Matter Theory & Quantum Computing Group
M1 Internship
Supervisors : Pr. Dr. Daniel Loss - Dr.Marko Rancic

Theoretical study and modelization of the electronic current through a double quantum dot in a Ge Nanowire used for quantum computational purposes.

SKILLS

Teachings
- Private lessons to High and Middle School students.
- Support courses to first-year bachelor-level students as part of the "Ariane" student association.

Programming and Software
- Python, C, C++, Fortran, LaTeX, Mathematica
- Office (Word, Excel, PowerPoint)

Associative Involvment
- QMat Graduate School - Young Investigators Group Student Representative
- International Doctoral Program - Primo Levi 2021 Cohort Delegate.

Scientific Events
- Student Organizer of the Machine Learning for Quantum X online pop-up conference 2021.
- KSOP-QMat Summer School 2020 . Best PhD poster in Photonic Materials & Devices award. (KIT, Karlsruhe).

HOBBIES & INTERESTS

Scientific
Quantum Computing, Quantum Optics, Atomic and Molecular Physics among others.

Miscellaneous
Popular Science, Video-making, Biking, Martial Arts (Kendo), Linguistics, Vexillology, Geography and Geology.