

RICHARD ŠVEJKAR

Researcher and developer in physical field

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⚙️ EXPERIENCE

Researcher and developer in physical field

Czech Technical University in Prague
Faculty of Nuclear Sciences and Physical Engineering

📅 Nov 2016 – present 📍 Prague, Czech Republic

- Department of Physical Electronics
- Research of solid-state lasers
- Research of lasers for short pulse generation in MID-infrared
- Supervisor: Prof. Ing. Helena Jelínková, DrSc.

Auxiliary Research Assistant

ELI Beamlines, Institute of Physics of the Czech Academy of Sciences

📅 May 2013 - Oct 2016 📍 Prague, Czech Republic

- Research of lasers for short pulse generation
- Supervisor: Jonathan Tyler Green, Ph.D

🎓 EDUCATION

MSc. in Laser Technology and Electronics

Czech Technical University in Prague
Faculty of Nuclear Sciences and Physical Engineering

📅 Oct 2010 - present 📍 Prague, Czech Republic

- Dissertation: Diode-pumped solid-state lasers generating radiation at mid-IR
- PhD. (Expected in 2020) - Physical Engineering
- MSc. (2016) - Laser Technology and Electronics
- BSc. (2013) - Laser Technology and Optoelectronic

👤+ ADDITIONAL ACTIVITIES

Week of science at Faculty of Nuclear Sciences

Supervisor of mini-project and lecturer

📅 Every October from 2017 📍 Prague, Czech Republic

For the students from high-schools, the popular lectures and mini-project are prepared to present our faculty.

Nigth at Faculty of Nuclear Sciences

Delegate of Department of Physical Engineering

📅 Every November from 2017 📍 Prague, Czech Republic

Presentation of the individual departments of the faculty to younger students. The presentation consists of experiments and lectures.

LPHYS'13, Laser Physics workshop

Member of local organization committee

📅 Jul 2013 📍 Prague, Czech Republic

The twenty-two annual International Laser Physics Workshop.

🧩 SKILLS

- Communication
- Flexibility
- Non-conflict
- Self-Motivated
- Teamwork
- Time Management
- Ability to work independently

💻 SOFTWARE

- LabView
- LaTeX
- Autodesk Inventor
- Matlab
- OriginLab
- Microsoft Office
- CorelDRAW Graphics Suite

⚔️ INTERESTS

- Jiu-Jitsu (green belt)
- Sport climbing
- Bouldering
- Long-distance march
- Traveling & Hiking
- Nature & History
- Playing the guitar

🚩 LANGUAGES

Czech
English
Spanish



📖 PUBLICATIONS

1. Richard Švejkar, et al.: Line-tunable Er:GGAG laser, Optics Letters, Jul 2018, vol. 43(14), pp. 3309–3312, doi: 10.1364/OL.43.003309.
2. Richard Švejkar, et al.: 2.4 μm diode-pumped Dy²⁺:CaF₂ laser, Laser Physics Letters, 2018, vol. 15(1), p.015803, doi: 10.1088/1612-202X/aa806d