

## Curriculum Vitae

### Personal data

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<b>Name:</b>	<b>RNDr. Lukáš Ondič, PhD.</b>
<b>ResearcherID</b>	F-9788-2014
<b>Date and place of birth:</b>	22nd January 1985, Košice, Slovak Republic
<b>Email</b>	ondic@fzu.cz

### Education

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<b>Sept. 2010 – Feb. 2014</b>	Strasbourg University (France); ,doctorate en cotutelle‘ <b>PhD thesis on <i>Silicon nanocrystals, photonic structures and optical gain</i></b>
<b>Sept. 2009 – Feb. 2014</b>	Doctorate programme at the Faculty of Mathematics and Physics, Charles University in Prague (Czech Republic); Doctoral degree ,RNDr.‘
<b>Sept. 2007 – Sept. 2009</b>	Master studies at the Faculty of Mathematics and Physics, Charles University in Prague (Czech Republic); Optics and optoelectronics; Master thesis on <b><i>Time-resolved measurement of optical gain in silicon based nanostructures</i></b>
<b>Sept. 2004 – Sept. 2007</b>	Bachelor studies at the Faculty of Mathematics and Physics, Charles University in Prague (Czech Republic); specialization: General physics; Bachelor thesis on <i>Newtonian limit of the Schwarzschild-de Sitter solution</i>

### Work experience

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<b>2020 – Present</b>	Leader of the Nanophotonics and Quantum Optics Group at the Institute of Physics, Czech Academy of Sciences (CAS), Prague
<b>2017 - 2019</b>	Researcher at the Institute of Physics, Czech Academy of Sciences (CAS), Prague <u>Responsibilities:</u> Researcher at the femtosecond laboratory
<b>March 2014 - 2016</b>	Postdoctoral research position at the Institute of Physics, CAS, Prague <u>Responsibilities, tasks and skills:</u> Time-resolved, temperature dependent optical spectroscopy of semiconductor quantum dots, theoretical design and experimental characterization of photonic crystals.

### Research Fellowships

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<b>2015 – 2016</b>	<b>Postdoctoral Fellowship</b> at the Laboratoire d’ondes et matière d’Aquitaine at the University of Bordeaux, France <ul style="list-style-type: none"><li>optical trapping of diamond nanoparticles, confocal microscopy</li></ul>
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<b>Oct. 2010 – May 2011</b>	Institut de Physique et Chimie des Matériaux de Strasbourg (IPCMS), UMR 7504 CNRS – Université de Strasbourg
<b>Feb. 2012 – June 2012</b>	<ul style="list-style-type: none"> <li>low-temperature photoluminescence and time-resolved optical gain measurements using fs setup with streak camera</li> </ul>
<b>Feb. 2013 – May 2013</b>	

### **Research interests:**

- semiconductors and semiconductor nanostructures (optical properties and preparation methods), temporally and temperature resolved photoluminescence, pump and probe, optical gain, light amplification, laser oscillators and generators, optical feedback, integrated optoelectronics, silicon photonics
- experimental (photoluminescence, transmission) and theoretical (Finite-difference time-domain FDTD technique, Rigorous coupled wave analysis RCWA method) studies of photonic properties of photonic crystals prepared from different materials (diamond, glass, silicon)

### **Scholarships and scientific awards**

<b>June 2017</b>	<b><u>The Otto Wichterle Award</u></b> is an honor given by the CAS to stimulate and encourage selected, exceptionally outstanding, promising young scientists.
<b>January 2015</b>	<b><u>The Bolzano Prize of the Charles University</u></b> was awarded to Dr. Ondic for an outstanding creative work in interdisciplinary research during the PhD studies. This is an extraordinary appreciation for the individual students.
<b>December 2013</b>	Best Presentation Award, The 2nd International Education Forum on Environment and Energy Science, Los Angeles, USA
<b>October 2013</b>	<b><u>The Josef Hlávka Prize, Hlávka Foundation, Czech Republic</u></b> is awarded to talented students at bachelor's, master's and postgraduate levels up to the age of 33, who have proved their exceptional capabilities and creative thinking in science.
<b>May 2012</b>	<b><u>Milan Odehnal Award, Czech Physical Society</u></b> The committee awarded the exceptional work of Dr. Ondic on the nanodiamond photonic crystals.
<b>September 2009</b>	French government scholarship for "doctorate cotutelle"

### **Professional research activities**

Author or co-author of 33 scientific publications (in 10 as the first author) that were published in high-impact international scientific journals (ACS Nano, Nanoscale, etc.). Number of total citations (without self-citations) ~ 461. **H-factor: 13**

### **Research projects (principal investigator):**

<b>2020-2025</b>	<b>Fellowship for Prospective Researchers – Lumina Quaeruntur</b> Project entitled ‘Novel quantum nanophotonics platforms on diamond’
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<b>2019-2022</b>	Standard project No. 19-14523S of the Grant Agency of the Czech Republic entitled <i>Stimulated emission and competitive processes in diamond optical centers.</i>
<b>2016 –2018</b>	Junior project No. 16-09692Y of the Grant Agency of the Czech Republic entitled <i>Studying effects of photonic crystal structures on photoluminescence of silicon-vacancy centers in diamond.</i>
<b>2015 – 2016</b>	Salary support for postdocs at the Czech Academy of Sciences. Project entitled <i>Design, production and characterization of photonic crystals with silicon nanocrystals for optoelectronics and solar cells.</i>
<b>2009 – 2012</b>	Project GAUK No. 73910 of the Grant Agency of the Charles University in Prague Title <i>Time-resolved spectroscopy of optical gain in silicon nanocrystals.</i>
<b>2008 – 2012</b>	Project KJB No. 100100903 of the Grant Agency of the CAS entitled <i>Nanocomposites from silicon and diamond nanocrystals for optoelectronic applications.</i>

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