

**Prof. Dr. Boris Majaron**

Scientific Counselor  
 Department of Complex Matter  
 Jožef Stefan Institute  
 Ljubljana, Slovenia

5. 2026

Professor of Physics  
 Department of Mathematics and Physics  
 University of Ljubljana  
 Ljubljana, Slovenia



## CURRICULUM VITAE

### Education and Academic degrees

- 1980 High-school Bacaulareat (cum laude); mathematical-physical program, Maribor
- 1985 B.Sc. in Physics, scientific orientation (final grade: 9.6 /10);  
 Faculty of Sciences and Technology (FST), University of Ljubljana
- 1989 M.Sc. in Physics, Solid-State Physics and Electrooptics (grade 9/10); FST, Ljubljana
- 1991, 1994, 1997 Teaching Assistant in Physics; Physics Department, FST, University of Ljubljana
- 1993 Ph.D. in Physics; Physics Department, FST, University of Ljubljana
- 2000 Scientific Associate; Jožef Stefan Institute, Ljubljana
- 2000, 2004 Assistant Researcher; Beckman Laser Institute, University of California at Irvine
- 2005 Assistant Professor of Physics; habilitation by University of Ljubljana
- 2006, 2011, 2016 Senior Scientific Associate; Jožef Stefan Institute, Ljubljana
- 2010, 2015 Associate Professor of Physics; University of Ljubljana
- 2021 Professor of Physics (Full); University of Ljubljana
- 2022 Scientific Counselor; Jožef Stefan Institute, Ljubljana

### Job positions

- 1985–1993 Junior Research Assistant; Physics Department, FST, University of Ljubljana
- 1993–2000 Postdoctoral Research Assistant; Jožef Stefan Institute, Ljubljana
- 1998–2000 Visiting Postgraduate Researcher; BLI, University of California at Irvine
- 2000–2001 Scientific Associate; Jožef Stefan Institute, Ljubljana
- 2000, 2002, 2003, 2004, 2005–2006 Visiting Assistant Researcher; BLI, Univ. California Irvine
- 2002 Professional Secretary; Complex Matter Dept., Jožef Stefan Institute, Ljubljana
- 2003–2004 Scientific Associate; Jožef Stefan Institute, Ljubljana
- 2004–2005 Professional Secretary; Complex Matter Dept., Jožef Stefan Institute, Ljubljana
- 2006–2022 Senior Scientific Associate; Jožef Stefan Institute, Ljubljana
- 2009–2012 Adjunct Professor position; Faculty for Mathematics and Physics, Univ. Ljubljana
- 2016– Adjunct Professor position; Faculty for Mathematics and Physics, Univ. Ljubljana
- 2023– Scientific Counselor; Jožef Stefan Institute, Ljubljana

### Awards

- 1980 Student of the year, First Gymnasium, Maribor
- 1985 ISKRA prize for the outstanding B.Sc. thesis
- 2002 US Air Force travel grant; ASLMS Annual Meeting, Atlanta, GA (USA)  
 (travel expenses, conference fee, and two courses)
- 2018 Grinzato Award nomination, 14<sup>th</sup> QIRT Conference, Berlin (Germany)

### Invited talks

- 20 at international scientific meetings (incl. *Gordon Research Conf.*, *Photonics West*, *Photonics Europe*, *ECBO*, *ICPPP*, *AITA*, *QIRT*)
- 8 at foreign universities (incl. UT Austin, UC Irvine, Oregon Medical Laser Ctr., Univ. Bern)
- 6 at local scientific and professional meetings
- 13 at local universities and institutes

### Editorial board member

- 2005–2022 *Lasers in Surgery and Medicine* (Wiley-Blackwell)
- 2017–2018 *International Journal of Thermophysics* (Springer Nature), Guest Editor
- 2007– *Journal of the Laser and Health Academy* (Laser and Health Academy)

### Member of scientific/program committee for international scientific meetings

- 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007 *Lasers in Dentistry*;  
Biomedical Optics Symposium (BIOS), Photonics West, San Jose, CA (USA)
- 2005 *Laser Technologies for Medicine*; LAT 2005, Saint Petersburg (Russia)
- 2009 *15<sup>th</sup> Internat. Conf. on Photoacoustic and Photothermal Phenomena*; Leuven (Belgium)
- 2011 *16<sup>th</sup> Internat. Conf. on Photoacoustic and Photothermal Phenomena*; Mérida (Mexico)
- 2013 *17<sup>th</sup> Internat. Conf. on Photoacoustic and Photothermal Phenomena*; Suzhou (China)
- 2015 *18<sup>th</sup> Internat. Conf. on Photoacoustic and Photothermal Phenomena*; Novi Sad (Serbia)
- 2017 *19<sup>th</sup> Internat. Conf. on Photoacoustic and Photothermal Phenomena*; Bilbao (Spain)
- 2019 *Photonics in Dermatology and Plastic Surgery*; BIOS, Photonics West, San Francisco, CA (USA)
- 2019 *20<sup>th</sup> Internat. Conf. on Photoacoustic and Photothermal Phenomena*; Moscow (Russia)
- 2020, 2021, 2022 *Photonics in Dermatology and Plastic Surgery*; BIOS, Photonics West,  
San Francisco, CA (USA)
- 2022 *21<sup>st</sup> Internat. Conf. on Photoacoustic and Photothermal Phenomena*; Bled (Slovenia) – vice chair
- 2023, 2024 *Photonics in Dermatology and Plastic Surgery*; BIOS, Photonics West, San Francisco, CA
- 2024 *22<sup>nd</sup> Internat. Conf. on Photoacoustic and Photothermal Phenomena*; Coimbra (Portugal)
- 2025, 2026 *Photonics in Dermatology and Plastic Surgery*; BIOS, Photonics West, San Francisco, CA
- 2026 *23<sup>rd</sup> Internat. Conf. on Photoacoustic and Photothermal Phenomena*; Bonito, MS (Brasil)

### Other services to professional community

- 1999– Reviewing manuscripts for scientific journals: *Applied Optics*, *Applied Physics B: Lasers & Optics*, *Biomedical Optics Express*, *Biomedical Engineering*, *Biomolecular Concepts*, *British Journal of Dermatology*, *Chemical Reviews*, *Infrared Physics and Technology*, *IEEE Journal of Selected Topics in Quantum Electronics*, *International Journal of Thermophysics*, *Journal of Applied Physics*, *J. of Visualized Experiments*, *Journal of Biomedical Optics*, *Journal of Biophotonics*, *Lasers in Medical Science*, *Lasers in Surgery and Medicine*, *Materials*, *Mathematical Biosciences and Engineering*, *Medical Engineering & Physics*, *Optics Express*, *Optics Letters*, *Photonics*, *Sensors & Actuators: B Chemical*
- 2014 Off-site reviewing of research grant proposals: *ERC Consolidator Grant* (Horizon 2020)
- 2014–17 Slovenian representative in the Management Committee (MC) of the *European network for skin cancer detection using laser imaging* (COST BM1205)
- 2015–18 Substitute of the Slovenian representative in the MC of *The European upconversion network: From design of photon-upconverting nanomaterials to biomedical applications* (COST CM1403)
- 2017–21 Slovenian representative in the MC of the scientific network *MULTI-modal Imaging of FOREnsic SciEnce Evidence - Tools for Forensic Science* (COST CA16101)
- 2019–22 Substitute of the Slovenian representative in the MC of the scientific network *Cancer Nanomedicine - from the bench to the bedside* (COST CA17140)

### Membership in professional societies

- 1986– DMFA –Slovenian Society of Mathematicians, Physicists and Astronomers  
1994– SPIE – The International Society for Optical Engineering  
1998–2000, 2011– OSA – Optical Society of America  
2002– ASLMS – American Society for Laser Medicine and Surgery (Fellow since 2004)

### Research project grants

- 1998–2001 *Clinical development of Er:YAG laser skin resurfacing;*  
applied research grant (ARRS –The Slovenian Research Agency), co-PI  
2001–2017 6 bilateral collaboration support grants for USA and Norway (ARRS), PI  
2001–2004 *Effects of laser irradiation on eye and periocular tissues;*  
applied research grant (ARRS), co-PI  
2004–2007 *Development of new laser therapies for cutaneous vascular lesions;*  
applied research grant (ARRS), co-PI  
2010–2011 *Feasibility study of pulsed photothermal radiometry application in dermatologic laser surgery;* industrial R&D contract (Fotona d.d., Ljubljana), PI  
2011–2013 *Smart Electromagnetic Medical Devices, subproject ThermoSmart;*  
Center of Competence in Biomedical Technology (ESRR-07-13-EU), PI  
2019–2020 *Development of a prototype device for non-invasive characterisation of transient changes in human skin;* industrial consulting contract (Lastinski inženiring d.o.o., Novo Mesto)

### Pedagogical experience

- 1985–2012 Conducting problem-solving classes and laboratory workshops at FMP, Univ. of Ljubljana:  
*Electrooptics;*  
*Physics 1* for students of Physics (5 years);  
*Physics* for students of Chemistry, Chemical technol., and Biology (1–2 semesters each);  
*Physics workshop 1* for students of Physics (2 sem.), Chemistry (3 sem.), and Pharmacy;  
*Physics workshop 3* for students of Physics (2 sem.).  
1986– Tutor for many student internships and seminar works  
1996– Mentor or co-mentor for:  
4 Ph.D. theses,  
9 M.S. theses (2 before, 7 after the Bologna reform)  
6 B.S. diploma works (before the Bologna reform)  
2 college-level diploma works  
2002– Member of numerous committees for Ph.D. thesis exposition or defence, academic promotions, etc.  
2006–2010 Short lecture series for doctoral students of Biophysics (Medical Faculty, Univ. of Maribor)  
2012– Having introduced and lecturing a course *Optical Techniques for Medicine;*  
Masters program in Medical Physics (FMP, Univ. of Ljubljana)  
2017– Having co-developed and co-lecturing a course *Selected Topics in Physics of Matter;*  
Masters program in Physics Education (FMP, Univ. of Ljubljana)