

Prof. Dr. Boris Majaron

Scientific Advisor

 Department of Complex Matter
 Jožef Stefan Institute,
 Ljubljana, Slovenia

2. 2024


CURRICULUM VITAE
Education and Academic degrees

- 1980 High-school Bacalareat (cum laude); mathematical-physical program, Maribor
- 1985 B.Sc. in Physics, scientific branch (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 Advisor; 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– 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 Advisor; 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, 14th QIRT Conference, Berlin (Germany)

Invited talks

- 17 at international scientific meetings (incl. *Gordon Research Confer.*, *Photonics West*, *ECBO*, *ICPPP*)
- 8 at foreign universities (incl. UT Austin, UC Irvine, OMLC, Univ. Bern, NUST Trondheim)
- 12 at local universities and institutes
- 6 at local scientific and professional meetings

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 *15th Internat. Conf. on Photoacoustic and Photothermal Phenomena*; Leuven (Belgium)
- 2011 *16th Internat. Conf. on Photoacoustic and Photothermal Phenomena*; Mérida (Mexico)
- 2013 *17th Internat. Conf. on Photoacoustic and Photothermal Phenomena*; Suzhou (China)
- 2015 *18th Internat. Conf. on Photoacoustic and Photothermal Phenomena*; Novi Sad (Serbia)
- 2017 *19th Internat. Conf. on Photoacoustic and Photothermal Phenomena*; Bilbao (Spain)
- 2019 *Photonics in Dermatology and Plastic Surgery*; BiOS, Photonics West, San Francisco, CA (USA)
- 2019 *20th Internat. Conf. on Photoacoustic and Photothermal Phenomena*; Moscow (Russia)
- 2020 *Photonics in Dermatology and Plastic Surgery*; BiOS, Photonics West, San Francisco, CA (USA)
- 2021 *Photonics in Dermatology and Plastic Surgery*; BiOS, Photonics West, San Francisco, CA (USA)
- 2022 *Photonics in Dermatology and Plastic Surgery*; BiOS, Photonics West, San Francisco, CA (USA)
- 2022 *21st Internat. Conf. on Photoacoustic and Photothermal Phenomena*; Bled (Slovenia) – vice chair
- 2023 *Photonics in Dermatology and Plastic Surgery*; BiOS, Photonics West, San Francisco, CA (USA)
- 2024 *Photonics in Dermatology and Plastic Surgery*; BiOS, Photonics West, San Francisco, CA (USA)
- 2024 *22nd Internat. Conf. on Photoacoustic and Photothermal Phenomena*; Coimbra (Portugal)

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*, *International Journal of Thermophysics*, *Journal of Applied Physics*, *J. of Visualized Experiments*, *Journal of Biomedical Optics*, *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 review of a research grant proposal; *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, member
- 1994– SPIE – The International Society for Optical Engineering, member
- 1998–2000, 2011– OSA – Optical Society of America, member
- 2002– ASLMS – American Society for Laser Medicine and Surgery, member; 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 (+1 in progress),
9 M.Sc. theses (2 before, 7 after the Bologna reform)
6 B.Sc. 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 developed and lecturing a course *Optical Techniques for Medicine*;
Masters program in Medical Physics (FMP, Univ. of Ljubljana)
- 2017– Having co-developed and lecturing a course *Selected Topics in Physics of Matter*;
Masters program in Pedagogical Physics (FMP, Univ. of Ljubljana)