

ZOLTÁN BÁLINT

PERSONAL DATA:

Date of birth: 13th of September 1979
Place of birth: Odorheiu Secuiesc, Romania
Married with Szidónia Bálint since 2004, two children (*2009, *2011)
E-mail: zoltan.balint(at)phys.ubbcluj.ro



UNIVERSITY EDUCATION AND PROFESSIONAL EXPERIENCES:

- 2018** – present associate professor at the Physics Department of "Babeş-Bolyai" University, Cluj-Napoca, Romania
- 2016** – present principal investigator at the IMOGEN Research Centre of the County Clinical Emergency Hospital of Cluj-Napoca, Romania
- 2016** – **2018** assistant professor at the Physics Department of "Babeş-Bolyai" University, Cluj-Napoca, Romania
- 2015** Apr habilitation "Biophysics/Medical Physics" at the Medical University of Graz, Graz, Austria
- 2010** – **2016** group leader at the Ludwig Boltzmann Institute for Lung Vascular Research, Graz, Austria
- 2007** – **2010** postdoc at the Division of General Anaesthesiology and Intensive Care Medicine, Medical University of Graz, Graz, Austria
- 2007** Mar PhD in biophysics; Thesis: *Investigating biological samples with atomic force microscope: from living cells to molecular level*; University of Szeged, Faculty of Medicine, Hungary
- 2003** – **2007** PhD student at the Biophysics Institute of the Biological Research Centre of the Hungarian Academy of Sciences, Szeged, Hungary
- 2002** – **2003** ITC fellow at the Biological Research Centre of the Hungarian Academy of Sciences, Szeged, Hungary
- 1998** – **2003** "Babeş-Bolyai" University Cluj-Napoca, Medical Physics- MS, Romania

SCIENTIFIC INTERESTS:

medical physics, biomedical imaging, computed tomography;
biophysics, atomic force microscopy, live cell imaging, cell biology;

AWARDS AND MEMBERSHIP:

- 2017** May Member of the Physics Doctoral School of the "Babeş-Bolyai" University Cluj-Napoca
- 2016** August Patent submission for non-invasive assessment of pulmonary hypertension by means of impedance cardiography (AT518396)
- 2014** October Takeda ATS Travel Grant, Austrian Society of Pulmonology
- 2014** October inventum2013 Prize of the Austrian Patent Office for the AT512393 patent
- 2014** Mar member of the Austrian Society of Pulmonology
- 2012** June Patent submission for non-invasive assessment of pulmonary hypertension by means of dynamic CT (AT512393)

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- 2009** Jul Blue Riband Poster Prize IIIrd place at the Physiology 2009 conference, Dublin, Ireland
- 2007** Mar Young Scientist Award of the Hungarian Academy of Sciences
- 2005** Dec first prize and silver medal from the Szeged Branch of the Hungarian Academy of Sciences, Szeged
- Dec Image Contest Winner, *Asylum Research*, Santa Barbara, CA, USA
- 2003** Mar member of the Hungarian Biophysical Society

REFERENCE WORK:

<https://afm.oxinst.com/gallery/biology-afm-image-gallery> - Cells - image 15

TEACHING EXPERIENCES:

- 2016 – present** lecturer of *Optometry and microscopy, Technological applications of lasers, Modern microscopy techniques and methods, Molecular and Cellular Biophysics*, Department of Physics, "Babeş-Bolyai" University, Cluj-Napoca, Romania
- 2013 – 2015** lecturer of *Biological imaging techniques*, PhD program of the Medical University of Graz, Austria
- 2008 – 2010** invited lecturer of *Biophysics*, Department of Physics, "Babeş-Bolyai" University, Cluj-Napoca, Romania
- Thesis co-tutor of *Krisztina Nagy* (2007 – MSc), BRC, Szeged, Hungary; *Diana Zabini* (2009 – MSc, 2013 - PhD), Medical University of Graz, Austria; *Michael Helmberger* (2013 – MSc), Technical University Graz, Austria; *Martin Wurm* (2014 – MD), Medical University of Graz, Austria; *Christian Payer* (2015 - MSc), Technical University Graz, Austria; *Michael Pienn* (2017 – PhD - ongoing), Technical University Graz, Austria

SOCIAL ACTIVITIES:

- 2008 – 2017** member of the organizing team of *Transylvanian Interdisciplinary Workshop*, Romania
- 2000 – 2005** member of the organizing team of *Bálványos Summer University and European Student Encounter*, Băile Tuşnad, Romania
- 1999 – 2001** president of *Physics Students Association of Cluj-Napoca (KOFIHE)*

LANGUAGE SKILLS:

Hungarian - maternal language; English – advanced; Romanian – advanced; German - advanced

HOMEPAGE:

<http://phys.ubbcluj.ro/~zoltan.balint/>