CURRICULUM VITAE

PÉTER SALAMON

Dated on August 6, 2021

PERSONAL DATA

Date of Birth: October 26, 1984 **Nationality:** Hungarian

email: salamon.peter@wigner.hu, salapeter@gmail.com **Researcher ID:** B-9221-2013

EDUCATION

2009 – 2013	Eötvös Loránd University, PhD School in Physics, Materials and Solid State Physics Programme: PhD in Physics
2003 – 2008	Budapest University of Technology and Economics: MSc in Engineering-physics

PhD dissertation: *Extraordinary properties of bent-core and rod-like nematic liquid crystals*
(written in English) Supervisor: Dr. Nándor Éber Date of defence: January 17, 2014
Qualification: summa cum laude (97%)
Official webpage: http://www.doktori.hu/index.php?menuid=193&vid=12344&lang=EN

Languages: Fluent: Hungarian, English Basic: German, French

SCHOLARSHIPS, PROJECTS

2019 – 2023	EU COST CA17139 - *European Topology Interdisciplinary Action, EUTOPIA,* (Management Committee Member)
2017 – 2021	*Research Grant for Young Scientists of the National Research, Development and Innovation Office (NKFIH FK125134),* Title of project: *Tunable topology of confined soft matter,* Host: Research Group of Partially Ordered Systems (web: http://www.szfki.hu/EN/structliq) Department of Complex Fluids, Institute for Solid State Physics and Optics, Wigner Research Centre for Physics (Wigner RCP), Budapest, Hungary
2017	*Infrastructure Development Project of the Hungarian Academy of Sciences (INFRA2017/1)*, title of project: *Custom fast polarimetric microscopy system,* Host: Wigner RCP, Budapest, Hungary
2016 – 2019	*Postdoctoral Scholarship of the National Research, Development and Innovation Office (NKFIH PD121019)*, Title of project: *Interfacial topology of anisotropic soft matter*, Host: Wigner RCP, Budapest, Hungary
2019 – 2018	*Bilateral Mobility Project of the Hungarian Academy of Sciences*, title: *Microfluidic systems based on anisotropic soft matter*, partner institute: Jožef Stefan Institute, Ljubljana, Slovenia, (Prof. Dr. Irena Drevenšek Olenik)
2014 – 2016	*Postdoctoral Scholarship of the Hungarian Academy of Sciences*, Host: Wigner RCP, Budapest, Hungary
2012 - 2014	*Research Assistant Scholarship of the Wigner Research Centre for Physics,* Host: Wigner RCP, Budapest, Hungary
2009 – 2012	*Scholarship for Young Researchers of the Hungarian Academy of Sciences*, Host: Institute for Solid State Physics and Optics, Budapest, Hungary

LONG TERM PROFESSIONAL TRAVELS

2016 – 2017	Jožef Stefan Institute, Ljubljana, Slovenia (3 months, host: Prof. Dr. Irena Drevenšek Olenik)
2016 – 2017	RIKEN Center for Emergent Matter Science, Wako, Japan (4 months, host: Dr. Fumito Araoka)

2010	Kent State University, Liquid Crystal Institute / Department of Physics, Kent, USA (3 months, host: Prof. Dr. Antal Jákli, Prof. Dr. James T. Gleeson)
2008 – 2009	Kent State University, Liquid Crystal Institute / Department of Physics, Kent, USA (6 months, host: Prof. Dr. Antal Jákli, Prof. Dr. James T. Gleeson)

RESEARCH INTEREST

Materials science, physics of soft condensed matter, optics, liquid crystals, polymers, elastomers, biological systems, membranes, fibres, suspensions. Microfluidics, nonlinear phenomena, and pattern formation. Experimental and computer simulation techniques.

RESEARCH EXPERIENCES

Building automated experimental measurement systems for dielectric spectroscopy, optical microscopy, imaging polarimetry, electric & magnetic field controlled birefringence, optical biaxiality, spontaneous polarization, optical activity, and rheology/rheo-optical measurements. Software development for measurement controlling, for data/image processing & analyzing, for computer simulation (continuum modelling of nematic liquid crystals, linear stability analysis to describe pattern formation, calculation of electric and optical properties by Maxwell equations and by Mueller/Jones calculus), and for fitting purposes (fitting measurement data to numerical simulations by numerical nonlinear optimization for determining material constants). Quantum-chemical calculations (molecular conformation optimization).

TEACHING EXPERIENCE

2020 -	Special course for MSc and PhD students: *Physics of Liquid Crystals*, Eötvös Loránd University, Budapest, Hungary
2020 -	Special course for MSc and PhD students: *Dynamical Phenomena in Soft Materials*, Eötvös Loránd University, Budapest, Hungary
2009 -	*Liquid Crystals laboratory practice* for MSc students, Eötvös Loránd University, Budapest, Hungary (4 full days/year: polarizing microscopy, electrooptics, dielectric and spontaneous polarization measurements, videomicroscopy and image processing for pattern formation studies)
2009	*Dielectric Spectroscopy laboratory practice I.-II.* (2 semesters), Kent State University, Liquid Crystal Institute, Chemical Physics Interdisciplinary Program, Kent, USA (broadband dielectric spectroscopy of nematic liquid crystals)

COMPUTER SKILLS

Advanced level: Matlab, Labview, Mathematica, Origin Pro, Maple, C, C++, Hyperchem
Intermediate level: Comsol, Pascal, Visual Basic

SCIENTOMETRIC DATA

List of all publications, including citation data:
https://vm.mtmt.hu//search/slist.php?nwi=1&inited=1&co_on=0&ty_on=1&la_on=0&LanguageID=&abs_on=0&sp_on=0&st_on=0&url_on=1&cite_type=2&orderby=3D1a&Scientific=1&Independent=0&top10=&lang=1&location=mtmt&debug=&stn=1&AuthorID=10018316&DocumentID=&tipus=&besorolas=&jelleg=1&pr_on=0

Link to Publons: http://www.researcherid.com/rid/B-9221-2013

Scientific articles in peer reviewed international journals: 32 Conference proceedings: 3

Cumulative impact factor (IF): 97 Citations (independent/total, from MTMT): 244/379
Citations (from Google Scholar): 497, h-index: 13

Presentations in international conferences: (oral/poster): 10/15 (1 invited oral presentation in a summer school)