Robert Blaga

WORK EXPERIENCE

02/2018 – CURRENT
RESEARCH ASSISTANT – WEST UNIVERSITY OF TIMISOARA

Research, Teaching

Timisoara, Romania

EDUCATION AND TRAINING

10/2008 – 07/2011 – Timisoara, Romania
BACHELOR OF SCIENCE (BSC) – West University of Timisoara

Physics

10/2011 – 07/2013 – Timisoara, Romania
MASTER OF SCIENCE (MSC) – West University of Timisoara

Astrophysics and Elementary particles

10/2013 – 12/2016 – Timisoara, Romania
DOCTOR OF PHILOSOPHY (PHD) – West University of Timisoara

Quantum fields on curved spacetimes

LANGUAGE SKILLS

Mother tongue(s): HUNGARIAN | ROMANIAN

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2
GERMAN	B2	B2	A2	A2	B1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

R (programming language) | Wolfram Mathematica | MathCad | Latex Software | Microsoft Office

PUBLICATIONS

Selected publications

D Yang, S Alessandrini, J Antonanzas, F Antonanzas-Torres, V Badescu, HG Beyer, **R Blaga**, J Boland, JM Bright, CF Coimbra, M David et al. *Verification of deterministic solar forecasts*. Solar Energy (2020).

R Blaga, A Sabadus, N Stefu, C Dughir, M Paulescu, V Badescu. *A current perspective on the accuracy of incoming solar energy forecasting*. Progress in Energy and Combustion Science **70** (2019).

R Blaga. *The impact of temporal smoothing on the accuracy of separation models*. Solar Energy **191** (2019).

E Paulescu, **R Blaga**. *A simple and reliable empirical model with two predictors for estimating 1-minute diffuse fraction*. Solar Energy **180** (2019).

R Blaga, M Paulescu. *Quantifiers for the solar irradiance variability: A new perspective*. Solar Energy **174** (2018).

D Calinoiu, N Stefu, R Boata, **R Blaga**, N Pop, E Paulescu, A Sabadus, M Paulescu. *Parametric modeling: A simple and versatile route to solar irradiance*. Energy Conversion and Management **164** (2018).

E Paulescu, **R Blaga**. *Regression models for hourly diffuse solar radiation*. Solar Energy **125** (2016)

PROJECTS

Projects

Ph.D program August 2014–October 2015
Faculty of Physics, West University of Timișoara
Project: *Doctoral and Postdoctoral programs support for increased competitiveness in Exact Sciences* (POSDRU/159/1.5/S/137750)
Project coordonator: Daniel Vizman (daniel.vizman@e-uvt.ro)

Research Assistant October 2015–October 2017
Faculty of Physics, West University of Timișoara
Project: *Lattice Boltzmann models for the simulation of flows of rarefied gases in the relativistic regime* (Young Teams Research Project PN-II-RU-TE-2014-4-2910)
Project coordonator: Victor E. Ambruş (victor.ambrus@e-uvt.ro)

Research Assistant April 2017–April 2018
Faculty of Physics, West University of Timișoara
Project: *PV power forecasting toolkit for smart grid-management* (PN-III-P2-2-1-PED-2016-0592)
Project coordonator: Marius Paulescu (marius.paulescu@e-uvt.ro)

Research Assistant October 2020–June 2022
Faculty of Physics, West University of Timișoara
Project: *All-sky imager-based solar power forecasting system for smart-grid operation* (PN-III-P2-2.1-PED-2019-3942)
Project coordonator: Marius Paulescu (marius.paulescu@e-uvt.ro)

Research Expert January 2021–November 2021
Resource Center for Ethical and Solidarity based Initiatives (CRIES)
Project: *Community-based participatory air quality monitoring in Timișoara, Romania* (LCJA 69/2020, Open Society Foundation)
Project Responsible Person: Robert Blaga (robert.blaga@e-uvt.ro)

Awards and Nominations

The award 'Cercetător Eminent 2019' of the 'Orizonturi Universitare' association.
Nomination for the 'Mircea Zăgănescu prize' for Natural Sciences, within the 2020 West University of Timișoara Awards.