

CONTACT INFORMATION	Institut für Mathematik Martin-Luther-Universität Halle-Wittenberg 06099 Halle (Saale), Germany	Voice: +49-345-55-24625 E-mail: tomas.dohnal@mathematik.uni-halle.de https://www2.mathematik.uni-halle.de/dohnal/
RESEARCH INTERESTS	<ul style="list-style-type: none"> • wave propagation problems • dispersive PDEs, wave-packet dynamics • PDE asymptotics and their rigorous justification • PDE bifurcation problems • solitary waves in periodic structures and at surfaces • numerics for wave problems 	
EDUCATION	<p>Karlsruhe Institute of Technology, Karlsruhe, Germany</p> <p>Habilitation May 2012</p> <ul style="list-style-type: none"> • Localized Waves in Periodic Structures <p>University of New Mexico (UNM), Albuquerque, NM, USA</p> <p>Ph.D., applied mathematics (defended with distinction) Sep. 2002 - Jul. 2005</p> <ul style="list-style-type: none"> • dissertation title: Optical bullets in (2+1)D photonic structures and their interaction with localized defects • advisor: Prof. Alejandro B. Aceves <p>M.S., applied mathematics Jan. 2001 - Aug. 2002</p> <p>Technical University in Liberec, Liberec, Czech Republic</p> <p>M.A., teaching of mathematics and of English as a foreign language 1995-2000</p>	
PROFESSIONAL EXPERIENCE	<p>Martin Luther University Halle-Wittenberg, Germany</p> <p><i>Institute of Mathematics</i> from 2/2018</p> <p><i>Professor in applied analysis</i></p> <p><i>Institute director, from 10/2019</i></p> <p>Technical University of Dortmund - Department of Mathematics, Germany</p> <p><i>Institute of Analysis</i> 9/2012 - 1/2017</p> <p><i>Junior-Professor in applied analysis</i></p> <p>Karlsruhe Institute of Technology - Department of Mathematics, Germany</p> <p><i>Institute for Applied and Numerical Mathematics 3</i> 10/2011 - 8/2012</p> <p><i>wissenschaftlicher Mitarbeiter</i></p> <p><i>Postdoc, Research Training Group 1294</i> 7/2009 - 9/2010, 4/2011 - 9/2011</p> <p><i>‘Analysis, Simulation and Design of Nanotechnological Processes’</i></p>	

University of Stuttgart - Department of Mathematics, Germany
'Substitute Professor' **10/2010 - 3/2011**

Humboldt Research Fellowship, University of Karlsruhe, Germany
Institute for Applied and Numerical Mathematics 2 **10/2007 - 6/2009**
host: Prof. Willy Dörfler

ETH - Seminar for Applied Mathematics, Zürich, Switzerland
Postdoc (group of Prof. Ralf Hiptmair) **9/2005 - 10/2007**

University of New Mexico - Department of Mathematics, Albuquerque, NM, USA
Research Assistant **8/2003 - 7/2005**
principal investigator: Prof. Alejandro B. Aceves

Research Assistant **spring 2003**
principal investigator: Prof. Timothy Warburton

Teaching Assistant **2001 - 2002**

Los Alamos National Laboratories, group T7, Los Alamos, NM, USA
graduate student affiliate **summer 2004**
mentor: Dr. Avner Peleg

graduate student affiliate **summer 2003**
mentor: Dr. James M. Hyman

STUDENT SUPERVISION
3 PhD students, incl. 2 ongoing
5 Master students, incl. 2 ongoing
8 Bachelor students

GRANTS
DFG Research Grant **12/2018 - 6/2022**

- ca. 199 000 EUR
- Rigorous Asymptotics of Surface Plasmon Polariton Wavepackets in Nonlinear Media

DFG Research Grant **10/2014 - 9/2017**

- ca. 125 000 EUR
- Moving Gap Solitons in Deep Periodic Structures with Transversally Crossing Bands

Humboldt-Fellowship **10/2007 - 6/2009**

- own postdoc position for 21 months
- Gap Solitons in Nonlinear Periodic Media - Modeling, Numerical Computations and Simulations in Physical Processes

PERSONAL
INFORMATION

married, 3 children

Date: November 21, 2021