

Karl Unterkofler
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https://itp.tugraz.at/~karl/

ACADEMIC EMPLOYMENT

Since 2014 Affiliated with the Institute for Breath Research, University of Innsbruck
2000 - 2022 Professor (FH-Prof.), Vorarlberg University of Applied Sciences
1993-2000 Lecturer, Dept. of Theoretical Physics, TU Graz, Austria
1990-1992 Postdoctoral fellow, Dept. of Mathematics, University of Missouri, Columbia MO, USA
1989-1993 Postdoctoral fellow, Dept. of Theoretical Physics, TU Graz, Austria
1986-1989 Research Assistant, Dept. of Theoretical Physics, TU Graz, Austria

EDUCATION

2001 January Habilitation in Applied Mathematics, TU Graz, associated to the Institute of Theoretical and Computational Physics: <https://itp.tugraz.at/>
1989 March Dr. techn. (Physics), with distinction, TU Graz, Austria
1986 April Dipl. Ing. (Physics), with distinction, TU Graz, Austria

MEMBERSHIPS

Member Austrian Mathematical Society (ÖMG), member of the advisory board, International Association for Breath Research (IABR) founding member

SCHOLARSHIPS AND AWARDS

1990-1992 Erwin Schrödinger Fellowship awarded by the Austrian Science Fund

Web

ORCID:

<http://orcid.org/0000-0002-1078-9645>

Scopus:

<http://www.scopus.com/authid/detail.url?authorId=6505968923>

Publions:

<https://publons.com/researcher/2744965/karl-unterkofler/>

Researchgate:

https://www.researchgate.net/profile/Karl_Unterkofler

Google Scholar:

<https://scholar.google.com/citations?user=GPB1NyMAAAAJ&hl=en>

Wiki:

https://de.wikipedia.org/wiki/Karl_Unterkofler

RECENT PROJECTS

- 2004-2005** Detection algorithms for ventricular fibrillation, principal investigator
- 2006-2009** LSH-2004-2.2.0-7 - STREP: Breath-gas analysis for molecular-oriented detection of minimal diseases (BAMOD), work package leader "database"
- 2006-2009** EFRE project "Atemgassimulation", principal investigator
- 2012-2015** FWF-Projekt P24736-B23, Mathematical modeling of trace gas exhalation kinetics, principal investigator, FWFproject.html
- 2016-2020** Horizon 2020, project "IMPACT" Ion-Molecule Processes for Analytical Chemistry Technologies, leader "work package 10"

Teaching

SUPERVISED PHD STUDENTS

- 2005** Robert Tratnig (PhD, Graz University of Technology)
- 2006** Klaus Rheinberger (PhD, Univ. of Innsbruck; jointly with A. Amann)
- 2009** Konrad Schwarz (PhD, Univ. of Innsbruck; jointly with A. Amann)
- 2010** Julian King (PhD sub auspiciis presidentis, Univ. of Innsbruck; jointly with A. Amann & G. Teschl)
- 2011** Helin Koc (PhD, Univ. of Vienna; jointly with G. Teschl)
- 2020** Michaele Malaskova (PhD, Univ. of Innsbruck; jointly with C. Mayhew)
- 2020** Clemens Ager (PhD, Univ. of Innsbruck; jointly with C. Mayhew)

SUPPORTED POSTDOCS

Dr. Julian King

Dr. Pawel Mochalski (Habilitation February 2016)

COURSES

Courses for students of computer science: discrete mathematics, linear algebra, calculus, ordinary differential equations, Mathematica & Matlab

Other mathematical quantum mechanics, nonlinear evolution equations - solitons

Conferences

Local organizer of the conference "Breath Gas Analysis for Medical Diagnostics" Vorarlberg University of Applied Sciences, Dornbirn, September 23rd to 26th, 2004:

<https://itp.tugraz.at/~karl/BreathConferenceDornbirn2004.pdf>

Member of the organizing committee of the "University of Applied Science Days":
<http://www.oemg.ac.at/FH/index.html>

Member of the scientific committee of the IABR Summit 2015 and 2016:
<http://breathsummit.com>

Chair of the local organizing committee ÖMG Conference 2019 (Austrian Mathematical Society) <http://www.oemg.ac.at/Tagungen/2019/>