

Curriculum Vitae

Sebastian Schwarzacher

Personalialia

Family name, First name:	Schwarzacher, Sebastian
Researcher unique identifiers:	ORCID: 0000-0003-2415-1172, Scopus: 51864654900 Researcher ID: V-8567-2019, MR Author ID: 956465
Date of birth:	24th July 1984
Nationality:	Austria
Web site:	http://www.karlin.mff.cuni.cz/~schwarz

Main research areas

- Nonlinear partial differential equations (analysis for weak solutions), 26 publ.
- Fluid dynamics (fluid-structure interaction, compressible and non-Newtonian fluids), 8 publ.
- Analysis for numerics for PDEs (Galerkin methods, convergence rates), 3 publ.
- Analysis of evolutionary non-linear PDEs (variable domains, intrinsic geometry), 14 publ.

Professional career and education

Jan. 2017–	Charles University, Prague, Faculty of Mathematics and Physics, Assistant Professor
Jul. 2018	Habilitation for associate professor in Italy.
2017–2018	University of Bonn, Inst of Appl. Math., Scientific Assistant
2014–2016	Charles University, Prague, (Czech Rep.), Faculty of Math. and Phys., Postdoc position
2010–2014	Ludwig Maximilian University Munich, (Germany), Scientific Assistant
Oct. 2013	PhD thesis, (Grade: <i>summa cum laude</i>)
2007–2010	University of Freiburg, (Germany), Studies in Mathematics (Diploma, grade 1).
2006–2007	University of Padova, (Italy), Erasmus exchange student
2003–2006	University of Vienna, (Austria), Mathematics, History.
2002–2003	Beauchamp College Oadby, Leicestershire, (U.K.), A-levels.

Grants & Awards

2019–2021	Primus grant PRIMUS/19/SCI/01 (University grant), Primary Investigator. Amount ca. 312 000 EUR, includes two Postdoc positions.
2019–2021	GAČR grant GJ17–01694Y (national), Primary Investigator. Amount ca. 200 000 EUR, shared over seven team members.
Jan. 2018–	UNCE/SCI/023, University centre (MathMAC), scientific member.
Jun. 2017	Visiting grant from the Univ. of Florence for 1 month.
2016–2017	ERC-CZ project MORE, LL1202, scientific member.
Oct. 2014	PhD thesis awarded with the <i>Carathéodory-Preis</i> of the LMU Munich
Jun. 2014	Awarded with a <i>Leopoldina-Postdoc-Stipendium</i> , (not accepted).
Sep. 2011	Diploma thesis awarded with the <i>Alumni-Preis</i> of the University of Freiburg

- **27 accepted publications** in scientific peer reviewed journals. Including the Arch. Ration. Mech. Anal., Amer. J. Math., J. Math. Pures Appl., Anal. & PDE, Siam J. Math. Anal. (2×), Siam J. Numer. Anal., Annal. l'Inst. Hen. Poinc. (C), Jour. of Funct., Trans. of AMS, Math. Mod. Meth. Appl. Sci. (2×), Calc. Var. & PDE (3×), Numer. Math., J. Diff. Eq. (3×).
- **Lectures at workshops and conferences** in 10 different countries, where 18 Lectures were invited talks.
 - Invited speaker to the *Workshop on Nonlinear Parabolic PDEs*, (Institute Mittag Leffler, Sweden, 2019)
 - Invited speaker at the *FSDONA 2019*, (Turku, Finland)
 - Plenary speaker to the *Japanese-Italian conference*, (Palazzone in Cortona, Italy 2019)
 - Plenary speaker to the *GAMM-Workshop on the Analysis of PDE*, (Stuttgart, Germany 2019)
 - Invited speaker at the workshop *Geometric Measure Theory and Free Boundary Problems*, (Hausdorff Research Institute of Mathematics, Germany, 2019)
 - Invited speaker to the *Workshop on Nonlinear Parabolic PDEs*, (Institute Mittag Leffler, Sweden, 2018).
 - Invited speaker in a mini-Symposium, (*Joint Meeting of KMS-DMV*, Seoul, Korea, 2018)
 - Invited speaker at the *Nonlinear Flows: Entropy methods, dissipative systems, and applications*, (Erwin Schrödinger Inst., Austria, 2016)
 - As PhD student lectures at the *Math. Research Inst. Oberwolfach* (Germany, 2013), *Institute Mittag Leffler* (Sweden, 2013) and the *Banach Center Bedlewo* (Poland, 2012).
- **Invited seminar talks** in 18 different institutions. Including the *Univ. of Oxford*, *Univ. of Warwick*, *Heriot Watt Univ. Edinburgh*, *Univ. of Bonn*, *TU Munich*, *Univ. of Warsaw*, *National Univ. Seoul*, *Univ. of Florence*, *IST Austria*.
- **Reviewing activities** Analysis und PDE, Ann. Mat. Pura ed Appl., Bull. Lond. Math. Soc., IMA J. Num. Anal., J. Math. Fluid Mech., Math. Nachrichten, Monatshefte der Mathematik, NoDea, Nonlin. Anal., SIAM J. on Math. Anal.
- **Organisation of scientific meetings** Hausdorff School *Modeling and analysis of evolutionary problems in materials science* at the University of Bonn in Sept. 2019 (together with J. Velázquez and M. Bonacini).
- **Teaching activity** Lectures (16), seminars (11) and mentorings (2) for Bachelor and Master students from mathematics and economics. Supervision of three Master Students (C. Míndrilă 2017/18, K. Kowalczyk and A. Češík 2018/2019). All continue in academia (A. Češík & C. Míndrilă in Prague and K. Kowalczyk at Univ. Bonn) and all three theses include original research for which publications are in preparation; e. g. the thesis of C. Míndrilă and K. Kowalczyk lead to the submission of Preprints. One co-supervision (T. Scharle, now PhD at Univ. of Oxford) led to a publication (see 21. in the list of publications).
- **Supervision of graduate students and postdoctoral fellows** Currently three Postdocs (G. Gravina, M. Kampschulte and G. Sperone) and two PhD students (C. Míndrilă, A. Češík) are under my supervision. Other members of my group: B. Benešova (senior staff), K. Tuma (senior staff), B. She (Postdoc), J. Scherz (PhD). Previous Postdocs: J. Burczak (now at Univ. Leipzig), M. Srocinski (now at Univ. of Konstanz).