Curriculum Vitae
Sebastian Schwarzacher

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 (personal):	http://www.karlin.mff.cuni.cz/~schwarz
Web site (team):	https://fsi.karlin.mff.cuni.cz/

Main research areas

Nonlinear partial differential equations (analysis for weak solutions)

Fluid dynamics (fluid-structure interaction, compressible and non-Newtonian fluids)

Analysis for numerics for PDEs (Galerkin methods, convergence rates)

Analysis of evolutionary non-linear PDEs (variable domains, intrinsic geometry)

Education

2.11.2022	Habilitation for associate professor, Faculty of Math. & Phys., Charles University
14.10.2013	PhD thesis, (Grade: *summa cum laude*) Ludwig Maximilian University Munich, (Germany).
24.08.2010	Diploma in Mathematics at the University of Freiburg

Employment

Feb. 2022–	Associate Professor at Uppsala University, Department of Mathematics
Feb. 2022–	Group leader at Charles University, Prague, Faculty of Mathematics and Physics
2017–2022	Assistant Professor, Charles University, Prague, Faculty of Mathematics and Physics
2017–2018	University of Bonn, Inst of Appl. Math., Scientific Assistant
2014–2016	Charles University, Prague, (Czech Rep.), Faculty of Math. and Phys., Post-doctoral fellow
2010–2014	Ludwig Maximilian University Munich, (Germany), Scientific Assistant

Grants & Awerds

2023–2026	VR Project grant (Swedish Research council), Principal Investigator.
2021–2026	ERC-CZ Grant CONTACT LL2105 (Czech Ministry), Principal Investigator.
2019–2021	Primus grant PRIMUS/19/SCI/01 (University grant), Principal Investigator.
2019–2021	GAČR grant GJ19-11707Y (national), Principal Investigator.
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 *Carathéodory-Preis* of the LMU Munich
Jun. 2014	Awarded with a *Leopoldina-Postdoc-Stipendium*, (not accepted).
Sep. 2011	Diploma thesis awarded with the *Alumni-Preis* of the University of Freiburg

Co-Organisation of scientific meetings:

July 2023	*Minisymposium at ICIAM*, Tokyo
July 2022	*Invited Minisymposium at Equadiff 15*, Brno
July 2021	*Brijuni Applied Mathematics Workshop 2021* at Brijuni National Park.
Sep. 2019	*Hausdorff School: Modeling and analysis of evolutionary problems in materials science* University of Bonn.

- **Supervision of graduate students and postdoctoral fellows:** Currently. *Postdocs:* (M. Kampschulte, J. Niinikoski and P. Su), *PhD students:* (A. Cesik and C. Mindrila). Other members of my group: B. Benesova (senior staff), K. Tuma (senior staff), B. She (senior staff), J. Fara (PhD). *Previous Postdocs:* J. Burczak (now at Univ. Leipzig), M. Sroczinskis (now at Univ. Konstanz), G. Gravina (now at Temple Univ.), G. Sperone (now Polit. Milano). Supervision of *three master students* that continued in academia with *theses including original research*: (C. Mindrila 2017/18, K. Kowalczyk and A. Cesik 2018/2019). One Bachelor student (J. Dopita 2021).

- **Teaching activity and mentoring** Lectures and seminars for Bachelor and Master students in Mathematics as well as service lectures for economy.

- **Lectures at workshops and conferences (selection)**

  Invited speaker at Workshop *Between Regularity and Defects: Variational and Geometrical Methods in Materials Science*, (ESI Vienna, Austra, 2023)

  Plenary speaker at *Workshop: Analysis of Fluid and Elastic Bodies Interactions*, (Univ. of Regensburg, Germany, 2022)

  Invited speaker at *Lake Como School: Partial Differential Equations of Mathematical Physics and Applications* (Como, Italy, 2021)

  Invited speaker at the (online) Birs workshop: *Nonlinear Potential Theoretic Methods in Partial Differential Equations*, (Banff, Canada 2021)

  Plenary speaker at the *INdAM Meeting on "Geometric Properties for Parabolic and Elliptic PDE's"*, (*Palazzone in Cortona*, Italy 2019)

  Invited speaker to the *Workshop on Analytic-Geometric inequalities and related Topics* and to the *Workshop on Nonlinear Parabolic PDEs*, (*Institute Mittag Leffler*, Sweden, 2018 and 2019).

  Plenary speaker to the *GAMM-Workshop on the Analysis of PDE*, (Stuttgart, Germany 2018)

  Invited speaker to the *Workshop on Nonlinear Parabolic PDEs*, (*Institute Mittag Leffler*, Sweden, 2019)

  Invited speaker at the *FSDONA 2019*, (Turku, Finland)

  Invited speaker at the workshop *Geometric Measure Theory and Free Boundary Problems*, (Hausdorff Research Institute of Mathematics, Germany, 2019)

  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).

- **Reviewing activities (selection):** Analysis & PDE, Ann. Mat. Pura ed Appl., Bull. Lond. Math. Soc., IMA J. Num. Anal., J. Math. Fluid Mech., J. Funct. Anal., J. Fluid Mech., Math. Nachrichten, Monatshefte der Mathematik, NoDea, Nonlin. Anal., SIAM J. on Math. Anal.

- **42 accepted publications in scientific peer reviewed journals:** Includes the Arch. Ration. Mech. Anal. (3×), Amer. J. Math., J. Fluid Mech., J. Math. Pures Appl. (2×), Anal. & PDE, Annals of PDE, Siam J. Math. Anal. (4×), Siam J. Numer. Anal., Annal. l'Inst. Hen. Poinc. (C) (2×), Jour. Funct. Anal., Trans. AMS, Math. Mod. Meth. Appl. Sci. (3×), Calc. Var. & PDE (3×), Numer. Math. (2×), J. Diff. Eq. (4×).

Link to Google Scholar.
Link to list of publications.