Curriculum Vitae Sebastian Schwarzacher

Personalia

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), 30 publ.

Fluid dynamics (fluid-structure interaction, compressible and non-Newtonian fluids), 11 publ.

Analysis for numerics for PDEs (Galerkin methods, convergence rates), 3 publ.

Habilitation for associate professor in Italy.

Analysis of evolutionary non-linear PDEs (variable domains, intrinsic geometry), 17 publ.

Education

27.07.2018

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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	
Jan. 2017–	Charles University, Prague, Faculty of Mathematics and Physics,
	Current possition: Assistant Professor.
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

2021-2026	ERC-CZ Grant INTERACT LL2105 (Czech Ministry), Principal Investigator.
	Funding for 5 years, includes 3 postdoc positions and 2 PhD positions.
2019–2021	Primus grant PRIMUS/19/SCI/01 (University grant), Principal Investigator.
	Funding for 3 years.
2019–2021	GAČR grant GJ17–01694Y (national), Principal Investigator.
	Funding for 3 years.
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 <i>Leopoldina-Postdoc-Stipendium</i> , (not accepted).
Sep. 2011	Diploma thesis awarded with the Alumni-Preis of the University of Freiburg

Organisation of scientific meetings:

Hausdorff School: Modeling and analysis of evolutionary problems in materials science at the University of Bonn in Sept. 2019.

Brijuni Applied Mathematics Workshop 2021 at Brijuni National Park, July 2021.

• Supervision of graduate students and postdoctoral fellows:

Currently two postdocs (M. Kampschulte and G. Sperone) and two PhD students (A. Cesik and C. Mindrila) are under my supervision. Other members of my group: B. Benesova (senior staff), K. Tuma (senior staff), B. She (Postdoc), J. Fara (PhD). Previous Postdocs: J. Burczak (now at Univ. Leipzig), M. Sroczinskis (now at Univ. Konstanz), G. Gravina (now at Temple Univ.). 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). Two Bachelor students (2021).

• Teaching Lectures (17), seminars (11) and mentorings (2) for Bachelor and Master students from mathematics and economics. Supervision of three Master Students (C. Mîndrilă 2017/18, K. Kowalczyk and A. Češík 2018/2019). All continue in academia (A. Češík & C. Mîndrilă 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. Mîndrilă and K. Kowalczyk lead to the submission of Preprints. One co-supervision (T. Scharle, now PhD at Univ. of Oxford) led to a publication.

• Lectures at workshops and conferences (selection):

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).

- Invited seminar talks: At several institutions including Univ. of Oxford, Univ. of Warwick, Heriot Watt Univ. Edinburgh, Univ. of Bonn, TU Munich, MPI Leipzig, Univ. of Warsaw, National Univ. Seoul, Univ. of Florence, IST Austria, Univ. of Vienna.
- 32 accepted publications in scientific peer reviewed journals. Including the Arch. Ration. Mech. Anal. (3×), Amer. J. Math., J. Math. Pures Appl., Anal. & PDE, Siam J. Math. Anal. (2×), Siam J. Numer. Anal., Annal. l'Inst. Hen. Poinc. (C) (2×), Jour. of Funct., Trans. of AMS, Math. Mod. Meth. Appl. Sci. (3×), Calc. Var. & PDE (3×), Numer. Math., J. Diff. Eq. (4×).
- Reviewing activities (Selection): Analysis und PDE, Ann. Mat. Pura ed Appl., Bull. Lond. Math. Soc., IMA J. Num. Anal., J. Math. Fluid Mech., J. Fluid Mech., Math. Nachrichten, Monatshefte der Mathematik, NoDea, Nonlin. Anal., SIAM J. on Math. Anal.
- Further achievements: Appointment proposal: Offer for Associate Prof. at Univ. of Uppsala. Rank 3 for a W2 Professorship at the Univ. of Erlangen-Nurnberg and member of the appointment proposal for a full Professorship at the Univ. of Insbruck.