

DANIEL CAMPBELL

PERSONAL INFORMATION

date of birth 2 September 1985
academic title RNDr., PhD
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WORK EXPERIENCE

02.2022–present CHARLES UNIVERSITY - FACULTY OF MATHE-
MATICS AND PHYSICS
09.2018–present UNIVERSITY OF HRADEC KRÁLOVÉ
Assistant
02.2017–08.2018 FRIEDRICH ALEXANDER UNIVERSITY,
ERLANGEN
Post-doc researcher at the chair of Aldo Pratelli, (1.02.2017-31.07.2018).
09.2012–02.2017 UNIVERSITY OF HRADEC KRÁLOVÉ
Assistant.

EDUCATION

PhD. study *09.2013-06.2017* CHARLES UNIVERSITY
Thesis: Properties of mappings of finite distortion
Advisor doc. Stanislav Hencl PhD.
Master's Degree *09.2005-06.2011* CHARLES UNIVERSITY
Thesis: Properties of Mappings of Finite distortion
Advisor doc. Stanislav Hencl PhD.

INVITED SPEAKER AT THE CONFERENCES

Nov. 2020 “Mathematical Analysis for Mechanics -
MA4M” - Annual Berlin-Dresden-Prague-Wuerzburg conference
July. 2019 “Two nonlinear days in Urbino 2019” in
Urbino
Sept. 2018 “Methods of Real Analysis and Theory of
Elliptic Systems” in Rome
Sept. 2017 “4th Conference on Recent Trends in
Nonlinear Phenomena” in Messina
May. 2017 “International Conference on Elliptic and
Parabolic Problems” in Gaeta
Nov. 2015 “2nd Conference on Recent Trends in
Nonlinear Phenomena” in Naples

Nov. 2015 "Methods of Real Analysis and Partial
Differential Equations" in Naples

GRANTS AND AWARDS

I was awarded the GACR Junior grant 20-19018Y, 01.2020-12.2022.

In 2019 I was awarded an ACRI "Young investigator training program grant" from Carlo Bo University of Urbino.

My postdoc position was partially funded by DFG PR 1687/1-1 under Prof. Aldo Pratelli.

During my PhD. studies I cooperated on the ERC CZ grant LL1203 of the Czech Ministry of Education under Prof. Stanislav Hencl.

CONFERENCE AND WORKSHOP ORGANISATION

Dec. 2020 Chair of the organising committee of GeoCa
20 in Lysečiny

May. 2021 Chair of the organising committee of
PerPartes 21 in Lysečiny

THESIS SUPERVISION

2017 Bachelor Thesis: Analza zadlužování
domácností v ČR, Oto Jeschke

2016 Bachelor Thesis: Matematika Hrou, Lenka
Vítková

2015 Bachelor Thesis: Základy analýzy - sbírka
řešených loh, Jana Hošková

SELECTED SHORT-TERM RESEARCH VISITS

Aug. 2019 University of Helsinki.
One week with prof. J. Onninen

Nov. 2017 University of Oxford.
One week with prof. J. Kristensen

Oct. 2017 University of Jyväskylä.
One week with prof. J. Onninen

SELECTED PUBLICATIONS

D. Campbell, S. Hencl, V. Tengvall, Approximation of $W^{1,p}$
Sobolev homeomorphism by diffeomorphisms and the signs of
the Jacobian, *Advances in Mathematics* vol 331, (2018).

D. Campbell, Diffeomorphic approximation of Planar Sobolev
Homeomorphisms in Orlicz-Sobolev spaces, *Journal of
Functional Analysis* vol 273, 1, (2017).

D. Campbell, A. Pratelli, E. Radici, Comparison between the
non-crossing and the non-crossing on lines properties, *Journal
of Mathematical Analysis and Applications*, vol 498, (2021).

D. Campbell, S. Hencl, A. Kauranen, E. Radici, Strict Limits of planar BV Homeomorphisms *Nonlinear Analysis: Theory, Methods and Applications* vol 177, A, (2018).

D. Campbell, S. Hencl, Approximation of planar Sobolev $W^{2,1}$ homeomorphisms by Piecewise Quadratic Homeomorphisms and Diffeomorphisms. *ESAIM: COCV*, vol 27 (2021).

PREPRINTS

D. Campbell, L. D'Onofrio, S. Hencl, A sense preserving Sobolev homeomorphism with negative Jacobian almost everywhere. To appear in: *Journal of the London Math. Soc.*

D. Campbell, A. Kauranen, E. Radici, Classification of strict limits of planar BV homeomorphisms -[arXive](#)

March 23, 2022
Daniel Campbell