

# Curriculum Vitae

## General information

*First Name* **Radim**  
*Surname* **Hošek**  
*Born* 8th October 1987, Jindřichův Hradec, Czech Republic  
*Nationality* Czech  
*Gender* Male  
*Residence* Prague, Czech Republic



## Education

2013 – (2017 expected) Ph.D. in Mathematics, University of West Bohemia, Plzen + Institute of Mathematics, Czech Academy of Sciences, Prague  
topic: Mathematical Analysis of Heat of Compressible Viscous and Heat Conducting Fluids  
supervisor: Eduard Feireisl

2010 – 2013 Master in Mathematics, UWB, Plzen  
thesis: „Analysis of Bistable Equation and Its Generalizations“  
supervisor: Pavel Drábek

2007 – 2010 Bachelor in Mathematics for Science, UWB, Plzen  
thesis: „Nonlinear Boundary-Value Problems of Fučík Type“  
supervisor: Gabriela Holubová

## Skills and interests

Nonlinear Analysis, Fluid Dynamics, Numerical Schemes, Geometry of Computational Mesh in 3D  
Matlab, Java, html, OCAD

## Language Skills

Czech (native)	English (fluent)	Slovenian (good command)
German (good command)	Russian (working knowledge)	Slovak (complete understanding)

## Other information

Active orienteering runner, sports events organizer; driving licence B

## Publications

[DH] P. Drábek, R.H.: Properties of solution diagrams for bistable equations. *EJDE*. Vol. 2015 (2015), No. 156, pp. 1–19, 2015.

[H] R.H.: Face-to-face partition of 3D space with identical well-centered tetrahedra. *Appl. Math.* 60(6):637–651, 2015.

**Preprints** (available at math.cas.cz)

[FHM] E. Feireisl, R.H., M. Michálek: A convergent numerical method for the full Navier-Stokes-Fourier system in smooth physical domains.

[FHMN] E. Feireisl, R.H., D. Maltese, A. Novotny: A convergent numerical method for the full Navier-Stokes-Fourier system in smooth physical domains.

[FHMN2] E. Feireisl, R.H., D. Maltese, A. Novotny: Convergence and error estimates for bounded numerical solutions of the barotropic Navier-Stokes system.

[H2] R.H.: Strongly regular family of boundary-fitted tetrahedral meshes of bounded  $C^2$  domains.

**Foreign stays**

02/2015	University of Toulon, France (2 week stay)
08/2014	National Technical University Trondheim, Norway (3 week stay)
09/2011 – 06/2012	Faculty of Mathematics and Physics, University of Ljubljana, Slovenia (10 months, Erasmus stay)

**Educational Events and Schools**

07/2015	CIME Course: Mathematical Thermodynamics of Complex Fluids, Cetraro, Italy
06/2015	Young Researchers in Fluid Dynamics, Darmstadt, Germany
05/2015	Mathematical Theory In Fluid Mechanics, Kácov, Czech Republic
01/2015	Minicourse on Navier-Stokes Initial-Boundary Value Problem, Brescia, Italy
11/2014	Oberwolfach Seminar: Analysis of Compressible Navier Stokes Equations and Related Topics, Oberwolfach, Germany

**Conferences**

01/2016	Meeting of Doctoral Students, Prague, Czech Republic
09/2014	SDEDE, Homburg, Germany
09/2014	MORE 2014, Liblice, Czech Republic
11/2013	MORE 2013, Liblice, Czech Republic
08/2013	Equadiff 2013, Prague, Czech Republic