

Personal data and contact information¹

Name **Radek Honzík** (in English-speaking journals also **Honzik**)
Home page <http://logika.ff.cuni.cz/radek>
Email radek.honzik@ff.cuni.cz

Employment history

2018–today Head of Department of Logic.
2015–2018 Deputy head of Department of Logic.
2008–today Full-time assistant professor at Charles University,
Faculty of Arts (FFUK), Department of Logic.
2013–2015 Postdoc at Kurt Gödel Research Center for
Mathematical Logic, Vienna University.
2005–2008 Junior researcher at Kurt Gödel Research Center
for Mathematical Logic, Vienna University.
2005–2008 Junior researcher at Mathematical Institute,
Academy of Sciences, Prague.

Education and degrees

December 2018 Habilitation (Doc.) in Mathematics, Charles University
Faculty of Mathematics and Physics (MFFUK).
September 2008 Ph.D. in Mathematics, Charles University,
Faculty of Mathematics and Physics (MFFUK).
Advisor: Sy David Friedman,
Opponents: Bohuslav Balcar, James Cummings.
September 2004 Master degree in Logic and Computational Linguistics,
Charles University, Faculty of Arts (FFUK).
September 1996 Master degree in Mathematics/English Language,
Technical University Liberec, Faculty of Education.

¹As of December 2020

Research projects and grants

2019–2021	Principal Investigator: Joint Lead-Agency research grant between Austrian Science Foundation (FWF, Vera Fischer) and Czech Science Foundation (GAČR), <i>Compactness principles and combinatorics.</i>
2019–2020	Principal Investigator: Czech Republic/Austria grant, Mobility, <i>Compactness and Cantor space.</i>
2019–2020	Principal Investigator: Internal FFUK grant for creation of new English-speaking courses, <i>Philosophical and historical aspects of modern mathematics.</i>
2015–2017	Principal Investigator: Joint Lead-Agency research grant between Austrian Science Foundation (FWF, Sy Friedman) and Czech Science Foundation (GAČR) no I 1921-N25, <i>The continuum, forcing, and large cardinals.</i>
2011–2012	Principal Investigator: Czech Republic/Austria grant, Mobility MEB 061106, <i>Definability and Ideals.</i>
2009–2011	Principal Investigator: postdoctoral grant 201/09/P115, Czech Science Foundation (GAČR), <i>Structural properties of the continuum function.</i>

Community service

Referee for Journal of Symbolic Logic, Annals of Pure and Applied Logic, Archive for Mathematical Logic, and Israel Journal of Mathematics. Reviewer for Math Reviews.

Selected publications

- Capturing sets of ordinals by normal ultrapowers (with M. Habic), to appear in *Annals of Pure and Applied Logic*, 2021.
- Small $u(\kappa)$ at singular κ with compactness at κ^{++} (with S. Stejskalova), to appear in *Archive for Mathematical Logic*, 2021.
- Indestructibility of the tree property (with S. Stejskalova), *The Journal of Symbolic Logic*, 85(1), 467-485, 2020.
- The tree property at $\aleph_{\omega+2}$ with a finite gap (with Sy D. Friedman and S. Stejskalova), *Fundamenta Mathematicae*, 251, 219-244, 2020.
- A Laver-like indestructibility for hypermeasurable cardinals, *Archive for Mathematical Logic*, 58(3), 275-287, 2019.
- The Hyperuniverse Project and Maximality, Antos, C., Friedman, S.-D., Honzik, R., Ternullo, C., *Birkhauser Basel (Springer)*, 2018.
- The tree property and the continuum function below \aleph_ω (with S. Stejskalova), *Mathematical Logic Quarterly*, 64(1-2), 89-102, 2018.
- The tree property at the double successor of a singular cardinal with a larger gap (with Sy D. Friedman and S. Stejskalova), *Annals of Pure and Applied Logic*, 169, pp 548-564, 2018.
- A survey of special Aronszajn trees (with S. Stejskalova), *Miscellanea Logica (X)*, *Acta Univ. Car., Philosophica et Historica* 1/2015, pp 73-91, 2015.
- Definability of satisfaction in outer models (with Sy D. Friedman), *Journal of Symbolic Logic*, 81(3), pp 1047-1068, 2016.
- The tree property at the \aleph_{2n} 's and the failure of SCH at \aleph_ω (with Sy D. Friedman), *Annals of Pure and Applied Logic*, 166, pp 526-552, 2015.
- Easton functions and supercompactness (with B.Cody and Sy D. Friedman), *Fundamenta Mathematicae*, 226, pp 279-296, 2014.
- On strong forms of reflection in set theory (with Sy D. Friedman), *Mathematical Logic Quarterly*, 62(1-2), pp 52-58, 2016.
- Multiverse conceptions in set theory (with C. Antos, S. D. Friedman, C. Ternullo), *Synthese*, 192(8), pp. 2463-2488, 2015.

- A lifting argument for the generalized Grigorieff forcing (with J. Verner), *Notre Dame Journal of Formal Logic*, 57(2), pp 221-231, 2016.
- Supercompactness and Failures of GCH (with Sy D. Friedman), *Fundamenta Mathematicae*, 219(1), pp 15-36, 2012.
- Fusion and large cardinal preservation (with Sy D. Friedman and L. Zdomsky), *Annals of Pure and Applied Logic*, 164, pp 1247-1273, 2013.
- Easton's theorem and large cardinals from the optimal hypothesis (with Sy D. Friedman), *Annals of Pure and Applied Logic*, 163(12), pp 1738-1747, 2012.
- A definable failure of the Singular Cardinal Hypothesis (with Sy D. Friedman), *Israel Journal of Mathematics*, 192(2), pp 719-762, 2012.
- A characterization of lifting generics for Sacks-like forcings, *Acta Universitatis Carolinae, Mathematica et Physica*, 51, pp 49-55, 2010.
- Global singularization and the failure of SCH, *Annals of Pure and Applied Logic*, 161(7), pp 895-915, 2010.
- Easton's theorem and large cardinals (with Sy D. Friedman), *Annals of Pure and Applied Logic*, 154(3), pp 191-208, 2008.