

Dalimil Peša

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Personal information

Citizenship: *Czech Republic*

Date of birth: 31. 12. 1994

Education

Charles University, Faculty of Mathematics and Physics <i>PhD study in mathematical analysis</i> Expected to graduate in 2024.	Prague 2019–ongoing
Charles University, Faculty of Mathematics and Physics <i>RNDr. (Rerum Naturalium Doctor) degree in mathematics</i>	Prague 2020
Charles University, Faculty of Mathematics and Physics <i>Master's degree in mathematical analysis</i> Graduated with honors.	Prague 2017–2019
Charles University, Faculty of Mathematics and Physics <i>Bachelor's degree in general mathematics</i> Graduated with honors.	Prague 2014–2017

Publishing activity

Reduction principle for a certain class of kernel-type operators: D. Peša, *Mathematische Nachrichten*. 2020;1–13. <https://doi.org/10.1002/mana.201800510>.

Wiener–Luxemburg amalgam spaces: D. Peša, *Journal of Functional Analysis*. 282(1):109270, 2022. <https://doi.org/10.1016/j.jfa.2021.109270>.

Lorentz–Karamata spaces: D. Peša, Submitted.

On the properties of quasi-Banach function spaces: A. Někvienda and D. Peša, Submitted.

On the smoothness of slowly varying functions: D. Peša, Submitted.

Nonlinear Gagliardo–Nirenberg inequality and a priori estimates for nonlinear elliptic eigenvalue problems: A. Kałamajska, D. Peša, and T. Roskovec, Submitted.

Citations

MathSciNet: 9, H-index 2.

Scopus: 7, H-index 2.

Google Scholar: 33, H-index 3.

Awards

Best paper award: The paper *Wiener–Luxemburg amalgam spaces* has been selected as one of the

best papers of the School of Mathematics, Faculty of Mathematics and Physics, Charles University, published in 2022 (category *Rewarded*).

Golden course: Golden course award for one of the best rated courses at Charles University, Faculty of Social Sciences, 2021.

Golden course: Golden course award for one of the best rated courses at Charles University, Faculty of Social Sciences, twice in 2018.

Dean's award: Dean's award for the best Bachelor's thesis in Mathematics, 2017.

Scientific competition: 2nd place at *SVOČ*, a scientific competition for students, 2017.

Research grants

P202/23-04720S, Czech Science Foundation: research worker, 2023-ongoing.

P201/21-01976S, Czech Science Foundation: research worker, 2022-ongoing.

GA UK No. 234522, Charles University: principal investigator, 2022-2023.

Start programme START/SCI/034, Charles University: principal investigator, 2021-2023.

Primus research programme PRIMUS/21/SCI/002, Charles University: research worker, 2021-2023.

Danube Region Grant no. 8X20043 TIFREFUS: research worker, 2020-2022.

P201-18-00580S, Czech Science Foundation: research worker, 2019-2020.

Teaching

- Introductory course in mathematical analysis, Charles University, Faculty of Social Sciences, summer semester in 2020/2021.
- Introductory course in mathematical analysis, Charles University, Faculty of Mathematics and Physics, winter semester in 2020/2021.
- Introductory course in mathematical analysis, Charles University, Faculty of Social Sciences, winter semester in 2019/2020.
- Introductory course in mathematical analysis, Charles University, Faculty of Mathematics and Physics, winter semester in 2018/2019.
- Introductory course in mathematical analysis, Charles University, Faculty of Social Sciences, two semesters in 2017/2018.

Foreign experience

- One month research stay at the Friedrich Schiller University Jena, 2022.
- One month research stay at the University of Vienna, 2021.
- One month research stay at the Rhenish Friedrich Wilhelm University of Bonn, 2021.
- One month research stay at the University of Warsaw, 2020.

Participation and talks at conferences and workshops

- GeoCa 23, Horní Lysečiny, 2023 (poster).
- Funktionenräume seminar, Friedrich-Schiller-Universität Jena, 2023 (talk).

- Marvellous Event in Geometric Analysis, Będlewo, 2023 (poster).
- Analiza w Tatrach 2023, Małe Ciche, 2023 (invited lecture and talk).
- Sommerschule "Analysis und Theoretische Numerik", Siegmundsburg, 2023 (talk).
- 47h Spring School on Analysis, Paseky nad Jizerou, 2023 (short talk).
- GEOFI, Prague, 2023 (poster).
- FSA2020, Apolda, 2022 (talk).
- Sommerschule "Analysis und Theoretische Numerik", Siegmundsburg, 2022 (talk).
- Geometric and analytic aspects of functional variational principles, Cetraro, 2022.
- Applied Harmonic Analysis and Friends 22, Strobl, 2022 (poster).
- NAFSA 12, Prague, 2022 (poster).
- LUBOŠ 60, Železná ruda, 2021 (poster).
- QIND60, Špindlerův mlýn, 2020 (talk).
- Sommerschule "Analysis und Theoretische Numerik", Siegmundsburg, 2020 (talk).
- 45th Spring School on Analysis, Paseky nad Jizerou, 2019 (short talk).
- Funktionenräume seminar, Friedrich-Schiller-Universität Jena, 2018 (talk).
- Sommerschule "Analysis und Theoretische Numerik", Siegmundsburg, 2017 (talk).
- 44th Spring School on Analysis, Paseky nad Jizerou, 2017.

Further activities

- Referee for *Czechoslovak Math. J.* and *J. Math. Anal. Appl.*
- Referee for the bachelor thesis *Duality for Weak Lebesgue Spaces* by Anna Musilová, 2023
- Referee for *SOČ*, a scientific competition for high school students, 2022-ongoing