



Kajántó Sándor

● PUBLICATIONS

2024

[A generic functional inequality and Riccati pairs: an alternative approach to Hardy-type inequalities](#)

Kajántó S., Kristály A., Peter I.R., Zhao W. - Math. Ann., accepted

2024

[Sharp spectral gap estimates for higher-order operators on Cartan–Hadamard manifolds](#)

Farkas Cs., Kajántó S., Kristály A. - Commun. Contemp. Math., accepted

2024

[Rellich inequalities via Riccati pairs on model space forms](#)

Kajántó S. - J. Math. Anal. Appl. 531(2), 127870.

2023

[Saturation phenomena of a nonlocal eigenvalue problem: the Riemannian case](#)

Kajántó S., Kristály, A. - Optimization, 1-24

2023

[Lower semicontinuity of Kirchhoff-type energy functionals and spectral gaps on \(sub\) Riemannian manifolds](#)

Farkas C., Kajántó S., Varga C. - Topol. Methods Nonlinear Anal. 61(2), 743-760.

2022

[On possible generalisations of quasi-contractions](#)

Cseh T., Kajántó S., Lukács A. - Stud. Univ. Babeş-Bolyai Math. 67 (3), 615–619

2021

[Unexpected Behaviour of Flag and S-Curvatures on the Interpolated Poincaré Metric](#)

Kajántó S., Kristály, A. - J. Geom. Anal. 31, 10246–10262

2018

[Universality in the coarse-grained fluctuations for a class of linear dynamical systems](#)

Kajántó S., Néda Z. - Phys. A: Stat. Mech. Appl. 503 pp. 215-220. , 6 p

2018

[On the Conditions of Fixed-Point Theorems Concerning F-Contractions](#)

Kajántó S., Lukács A. - Results Math. 73 : 2 p. 73

2018

[Fixed point theorems for various types of F-contractions in complete b-metric spaces](#)

Lukács A., Kajántó S. - Fixed Point Theory 19. pp. 321-334.

2018

[A note on the paper "Contraction mappings in b-metric spaces" by Czerwik](#)

Kajántó S., Lukács A. - Acta Univ. Sapientiae Math. 10 : 1 pp. 85-89. , 5 p.

2018

Ordinary Differential Equations (Lecture Notes)

Andrász Sz., Kajántó S., Lukács A. - STATUS, Miercurea-Ciuc, ISBN 978-606-661-086-5

● **CONFERENCES AND SEMINARS**

23/08/2023 – 25/08/2023 Budapest

20th Workshop on Advances in Continuous Optimization

Title of the talk: Saturation of a nonlocal eigenvalue problem on Riemannian manifolds

12/06/2023 – 16/06/2023 Debrecen

Colloquium on Finsler Geometry and its Applications

Title of the talk: The flag and S-curvatures of the interpolated Poincaré metric: unexpected behaviours

23/05/2023 – 26/05/2023 Timișoara

IEEE 17th International Symposium on Applied Computational Intelligence and Informatics

Title of the talk: Saturation phenomena of a Riemannian non-local eigenvalue problem

18/05/2023 – 19/05/2023 Iași

Workshop for Young Researchers in Mathematics – 12th Edition

Title of the talk: On the flag and S-curvatures of the interpolated Poincaré metric

● **WORK EXPERIENCE**

2018 – CURRENT Cluj-Napoca, Romania

ASSISTANT PROFESSOR BABEȘ-BOLYAI UNIVERSITY (BBU), FACULTY OF MATHEMATICS AND COMPUTER SCIENCE (FMCS)

2017 – 2018 Cluj-Napoca, Romania

GRADUATE TEACHING ASSISTANT BBU, FMCS

● **PROJECTS**

2020 – 2023

UEFISCDI/CNCS PCE grant

PN-III-P4-ID-PCE2020-1001 – PhD student

● **EDUCATION AND TRAINING**

2018 – CURRENT

PHD DEGREE BBU, FMCS, Doctoral School in Mathematics and Computer Science

2015 – 2018

MSC DEGREE BBU, FMCS, Data Analysis and Modelling

2015 – 2018

MSC DEGREE BBU, FMCS, Computational Mathematics

2012 – 2016

BSC DEGREE BBU, Faculty of Physics, Physics and Computer Science

2012 – 2016

BSC DEGREE BBU, FMCS, Mathematics and Computer Science

● **LANGUAGE SKILLS**

Mother tongue(s): **HUNGARIAN**

Other language(s): **ENGLISH** | **GERMAN** | **ROMANIAN**

● **DIGITAL SKILLS**

Latex Software | Mathematical Computing