

Prof. Dr. Arian Bërdëllima



Professor of Mathematics and Actuarial Science
Faculty of Engineering / Faculty of Management and
Economic Sciences
Email: arian.berdellima@giu-berlin.de
Room: 312

[Google Scholar](#)

I am a Professor of Mathematics and Actuarial Science at German International University (GIU) in Berlin, Germany. Prior to this position, I was a Postdoc in the Department of Mathematics at the Technical University of Berlin (TU Berlin).

Education

BA, Mathematics and BA, Economics, American University in Bulgaria, Bulgaria 2011

MPhil, Economics, University of Oxford, Oxford, UK, 2014

Dr. rer. nat., Mathematics, Georg-August-Universität Göttingen, Göttingen, Germany, 2020

Research Interests

My research lies at the intersection of analysis and metric geometry. In particular, I am interested in the geometry of $CAT(0)$ spaces and its applications in science and engineering. Another topic of interest is fixed point theorems in metric spaces and their applications.

Selected Research

- A. Bërdëllima and G. Steidl, Quasi α -firmly nonexpansive mappings in Wasserstein spaces, *Fixed Point Theory*, 26(1), 37-56 (2025)
- A. Bërdëllima, A note on Chebyshev's theorem. *Notes on Number Theory and Discrete Mathematics*, 31(1), 15-26 (2025).
- A. Bërdëllima and N. L. Braha, Banach spaces of sequences arising from infinite matrices. *Ann. Funct. Anal.* 15, 53 (2024).
- A. Bërdëllima, On a weak topology for Hadamard spaces, *Sb. Math.*, Vol. 214:3, 25–43 (2023).
- R. Beinert, A. Bërdëllima, M. Gräf and G. Steidl, On the dynamical system of principal curves in R^d , *Commun. Stat. - Simul. Comput.* (2022).
- A. Bërdëllima, F. Lauster and D. R. Luke, α -Firmly Nonexpansive Operators on Metric Spaces, *J. Fixed Point Theory Appl.*, Vol.24 (2022).
- A. Bërdëllima, A note on Mosco convergence in $CAT(0)$ spaces, *Canad. Math. Bull.* (2022).

- A. Bërdëllima, On a notion of averaged mappings in CAT(0) spaces, *Funct. Anal. Its Appl.*, Vol.56, issue 1, 37–50 (2022).
- A. Bërdëllima and G. Steidl, On α -firmly nonexpansive operators in r -uniformly convex spaces, *Results Math.* 76:4, (2021).
- A. Bërdëllima, Duopoly price competition with limited capacity. *Econ. Theory Bull.* 9, 143–154 (2021).
- A. Bërdëllima, A note on a conjecture by Khabibullin, *Zap. Nauchn. Sem. POMI*, 467, 7–20, (2018); *J. Math. Sci. (N. Y.)*, 243:6 ,825–834, (2019).
- A. Bërdëllima, On Khabibullin's conjecture about pair of integral inequalities. *Ufimsk. Mat. Zh.*, Vol.10:3 (2018).
- A. Bërdëllima, About a conjecture regarding plurisubharmonic functions, *Ufimsk. Mat. Zh.*, Vol.7 (2015).