Assoc. Prof. Dr. Arian Bërdëllima

Assoc. Professor[1] **of Mathematics and Actuarial Science**
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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 at the Technical University of Berlin (TU Berlin) in the Department of Mathematics.

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

- 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).
- Bërdëllima, A note on Mosco convergence in CAT(0) spaces, Canad. Math.Bull. (2022).
- Bërdëllima, On a notion of averaged mappings in CAT(0) spaces, Funct. Anal. Its Appl., Vol.56, issue 1, 37−50 (2022).
- Bërdëllima and G. Steidl, On α-firmly nonexpansive operators in r-uniformly convex spaces, Results Math. 76:4, (2021).
- Bërdëllima, Duopoly price competition with limited capacity. Econ. Theory Bull. 9, 143−154 (2021).

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[1] Subject to the approval of the Berlin Senate.

- 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).