Associate Professor Margareta Gardijan Kedžo, PhD

Department of Mathematics
e-mail: mgardijan@net.efzg.hr: phone: +385 1 238 3323
Google Scholar: https://scholar.google.com/citations?user=oKv3etUAAAAJ&hl=en
ORCID: https://orcid.org/0000-0001-5390-057X

Career overview

Margareta Gardijan Kedžo finished graduate studies in Business Economics at the Faculty of Economics and Business Split. Since 2011 she is a member of the Department of Mathematics at the University of Zagreb Faculty of Economics and Business where she teaches courses in Mathematics, Financial Mathematics and Financial Modeling, collaborates on the course Mathematical Methods for Financial Asset Management, and conducts the online pre-course Basics of Mathematics. She also finished postgraduate studies in Financial Analysis in 2012 and in 2016 she obtained a PhD on the topic: "Effectiveness of portfolio hedging strategies using options" under the mentorship of prof. Ph.D. Boško Šego. During her doctoral studies (February - June 2015), she was a visiting researcher at the Manchester Business School. She participated in a series of conferencs, seminars and workshops on econometrics, data limitation analysis, operational research and the application of information and communication technologies in teaching.

She is an active member of the Croatian Society for Operational Research. Since October 2016, at the Faculty of Economics - Zagreb, she was a e-learning representative and Faculty administrator for the Merlin e-learning system, and held educational workshops for teaching staff. From 2011-2014 she was a member of the project "Models and methods of operational research in economics and business decision-making" (leaders L. Neralić, Z. Lukač), as well as several university projects in the period from 2015-2019. She is a member of the seminar for mathematical programming and game theory of the Mathematical Department of the Faculty of Science in Zagreb.
She is the winner of several awards for scientific work and teaching: the Ljubomir Martić award in 2020 and in 2022, Pero Jurković award in 2022 and the award of the Croatian Insurance Office for the best scientific work in the field of insurance in 2018.
She is the author of over 30 titles (scientific papers, chapters in scientific books, university textbooks, university manuals and professional papers).

Research areas

Financial modeling, financial mathematics, data envelopment analysis, stochastic dominance

External activity

A member of the editorial boards of journals CRORR and CREBSS, a member of the KOI conference program committee since 2021 and organizing committees of conferences KOI 2018 and KOI 2020, the project leader of the science popularization program in 2019 and 2020 under the title "Economic problems under a magnifying glass: let's ask the quants". In 2019, she participated in the implementation of the summer school of the Zagreb V. Gymnasium on the topic of Financial Mathematics.

Notable Publications in period 2019-2023

Krpan, Mira ; Pavković, Ana ; Gardijan Kedžo, Margareta

Sustainability Analysis of European Pension Systems using Data Envelopment Analysis // Ekonomska istraživanja, 35 (2022), 1; 6648-6666. doi: 10.1080/1331677X.2022.2052335

Gardijan Kedžo, Margareta ; Kordić, Gordana ; Mihelja Žaja, Maja
ULOGA FISKALNIH PRAVILA U ODRŽAVANJU STABILNOSTI U SITUACIJI VANJSKOG ŠOKA: PRIMJER EUROPSKE UNIJE // Zbornik radova sa znanstvenog skupa "Financije u svijetu punom izazova".
Zagreb: Hrvatska akademija znanosti i umjetnosti (HAZU) ; Ekonomski fakultet Sveučilišta u Zagrebu, 2021. str. 1-31

Gardijan Kedžo, Margareta ; Šego, Boško
The relative efficiency of option hedging strategies using the third-order stochastic dominance // Computational management science, 18 (2021), 4; 477-504. doi: 10.1007/s10287-021-00401-z

Gardijan Kedžo, Margareta ; Tuškan Sjauš, Branka
The Efficiency Analysis of Large Banks Using the Bootstrap and Fuzzy DEA: A Case of an Emerging Market // Information, 2021 (2021), 12; 507, 14. doi: 10.3390/info12120507

Gardijan Kedžo, Margareta ; Lukač, Zrinka
The financial efficiency of small food and drink producers across selected European Union countries using data envelopment analysis // European journal of operational research, 291 (2021), 2; 586-600. doi: 10.1016/j.ejor.2020.01.066.

Gardijan Kedžo, Margareta
Evaluating the Efficiency of Portfolio-Hedging Strategies by Incorporating Third Degree Stochastic Dominance Criteria and Data Envelopment Analysis // Recent Applications of Financial Risk Modelling and Portfolio Management.
Hershey (PA): IGI Global, 2021. str. 22-46 . doi: 10.4018/978-1-7998-5083-0.ch002