Ozan Evkaya

STATISTICIAN, DATA SCIENTIST, TEAM PLAYER, COLLABORATOR, TRAINEE ACTUARY

\$\(\cup (+44)\) 07503-700682 | \$\sup \operazona \text{ozanevkaya@qmail.com}\$ | \$\mathbb{\text{https://ozanevkaya.netlify.app/}\$ | \$\mathbb{\text{O}}\) ozanevkaya | \$\mathbb{\text{in}}\) ozanevkaya

Experience (T: Teaching, R: Research)

T - The University of Edinburgh, School of Mathematics

Edinburgh, Scotland

UNIVERSITY TEACHER

• Delivering teaching at all levels, helping to develop new and existing courses

Undertaking teaching and student support related administrative duties

T - Istinye University, Faculty of Economics, Administrative and Social Sciences

Istanbul, Turkey

PART-TIME LECTURER (ONLINE)

Oct. 2022 -

March 2022 -

• Courses: Data, Al and Ethics (22-23 Fall) / Data Viz with R, Data Science II (22-23 Spring, 23-24 Spring) / Intro to Gen-Al (23-24 Fall)

T - TED University, Faculty of Economics and Administrative Sciences

Ankara, Turkey

PART-TIME LECTURER (ONLINE)

Oct. 2021 - Dec. 2022

• Courses: Statistical Learning with R, (Undergraduate and Posgraduate level)

R - Universita Degli Studi Di Padova, Department of Statistical Sciences

Padova, Italy

Jan. 2021 - Febr. 2022

Project title: Bayesian methods for conditional dependence learning

• Advisor: Prof. Bruno Scarpa

T - Istanbul Bilgi University, Department of Mathematics

İstanbul, Turkey Febr. 2021 - June. 2021

PART-TIME LECTURER (ONLINE)

• Course: Computational and Mathematical Numeracy for Social Scientists II / Probability

R - Technische Universität Dresden, Institute of Economics and Transport School of **Transportation**

VISITING RESEARCHER

Dresden, Germany Oct. 2020 - Dec. 2020

• Project title: Subsampling for HAC parameter estimation

· Advisor: Prof. Ostap Okhrin

R - KU Leuven, Research Centre for Operations Research and Statistics (ORSTAT)

Leuven, Belgium Jan. 2020 - Sep. 2020

POSTDOCTORAL RESEARCHER

• Project title: Semi-parametric approach for copula directed acyclic graphs.

• Advisors: Prof. Gerda Claeskens and Iréne Gijbels

Ankara, Turkey

Oct. 2009 - Dec. 2019

T - Atılım University, Department of Mathematics TEACHING ASSISTANT

• Successfully taught a large variety of courses from service courses to upper level math courses

· Experience about preparing homework, reading exam and quiz papers and other related academic duties

Skills _

Languages Turkish (native), English (fluent), Italian (basics)

Programming R, Python, MATLAB, SPSS

Others Github, Latex(Overleaf), Microsoft Office

Education

Middle East Technical University

Ankara, Turkey

PHILOSOPHY OF DOCTORATE IN STATISTICS, GPA: 3.56/4.0

August 2018

• Thesis Title: Mixture of Vines for Dependence Modeling: Finite Mixture and CD-vine Approaches with Applications (CITATION: 1)

• Advisor: Ceylan Yozgatlıgil, Co-advisor: A. Sevtap Kestel

Middle East Technical University

Ankara, Turkey

August 2012

MASTER OF SCIENCE IN ACTUARIAL SCIENCE, GPA: 3.64/4.0

• Thesis Title: Modelling Index-Based Drought Insurance for the Provinces of Central Anatolia Region (CITATION: 3)

• Advisor: S. Kasırga Yıldırak

Ankara, Turkey June 2009

Dissertations

Understanding factors of Dementia in depth: Explainable AI (XAI) approach

The University of Edinburgh (MSc Thesis, SOR)

• Supervising; Kezheng Wang (June-August 2024)

A wavelet-based copula approach for modeling market risk: Turkey ISE-100 Case Study

The University of Edinburgh

(MSc Thesis, SOR)

• Supervising; Xin Wang (June-August 2024)

Turkey Stock market Dependencies: Study based on wavelet-vine copula approach

The University of Edinburgh

• Supervising; Tim Xu, Huari Yang, Maiyue Xu (Sept. 2023 - March 2024)

Starting journey for Explainable and Responsible Artificial Intelligence: Experiments on **Insurance Data**

The University of Edinburgh

(UG Project)

(UG Project)

• Supervising; Richard Huang, Callum Purcell (Sept. 2023 - March 2024)

Understanding the product performance of Fouling Control Coatings

The University of Edinburgh

The University of Edinburgh

(SwDS PG Project)

• Project leader with industrial partner AkzoNobel, (July - August 2023)

Non-parametric copula based Drought Analysis

(UG Project)

• Supervising; Hongyi Lu, (Sept. 2022 - March 2023)

Evaluating Student's Attitudes Towards Statistics The University of Edinburgh

(MSc Thesis, SOR)

• Supervising; Shuyu Liu, (June-August 2022)

Projects _____

Understanding LLMs and Generative-AI (Gen-AI)

Turkish Mathematics Association

(3rd Directed Reading Program (DRP))

• Mentoring Emre Anil Oguz, for 2023 Summer (July-August 2023)

The application of algorithmic trading in portfolio optimization

The University of Edinburgh

(Vacation Scholarship Project)

• Supervising Rishabh Ramruttun, Submitted for 2023 Summer (July-August 2023) Copula based Drought Analysis and Drought Estimations: Konya Case

Middle East Technical University

(BAP-08-11-2017-025)

• Project coordinator: Assoc. Dr. Ceylan Yozgatlıgil

• Role & spent time: Assistant researcher & 12 Months (01.01.2017-31.12.2017)

Software

ResProStr R package R package available in https://oevkaya.github.io/ResProStr/

Awards/Funding _____

Advanced Higher Education Edinburgh Teaching Fellow - Category 2 (FHEA), 2023

DAAD Short Term Research Scholarship, 2019

TUBITAK 2219 Postdoctoral Research Scholarship, 2019 (Not used)

ICCOPT2019 Free Conference Participation Grant, 2019

TUBITAK 2224-A Participation in Scientific Activities Abroad Program, 2015

Refereeing (17)

(1) Earth Science Informatics (2023), (6) Computational Economics (2023-2024), (2) Mathematical Modelling and Numerical Simulation with Applications (2023), (1) International Journal on Artificial Intelligence Tools (2023), (1) Journal of Engineering Technology and Applied Sciences (2021), (1) İSTATİSTİK, Journal of the Turkish Statistical Association (2021), (1) Hacettepe Journal of Mathematics and Statistics (2021), (1) Dependence Modeling (2021), (1) Journal of Applied Statistics (2020), (1) Mathematical Problems in Engineering, Special Issue (2018), (1) Central European Journal of Operations Research (2018)

Memberships ____

2024-present Royal Statistical Society Fellow; Royal Statistical Society Edinburgh local group member

2023-present EdinbR R users co-organiser **2018-present** Turkish Statistical Association

Student Membership, Society for Industrial and Applied Mathematics (SIAM); Bernoulli Society for Mathematical Statistics and 2017 - 2018

Probability

Conference Talks

Leveraging Gen-Al tools in Higher Education: Data Science Perspectives

24 August 2023

ABERDEEN, UK

• SICSA Education - Pedagogical Impacts of ChatGPT and Other LLMs

Analysing Drought Characteristics by Parametric and Non-parametric Copula Approach

17 August 2023

LEICESTER, UK

• The Young Statisticians' Meeting (YSM), YSM2023

Potentials and Challenges of Gen-AI for learning and assessment feedback

30 June 2023

• The 21st Academic Practice and Technology Conference, APT2023 (Open-Space Discussion)

Clustering mortality data with nonparametric Bayesian approach

21-23 Sept. 2022

• Statistical methods and models for complex data, Poster Presentation

Modeling the Dependency in the Turkish Stock Market via the Dynamic Vine-GARCH Model

12-15 July 2022

GUANGZHOU, CHINA

• 25'th International Congress on Insurance: Mathematics and Economics (UME2022), Virtual

Modeling asymmetric dependence pattern with directional dependence measures

24-28 August 2020

WORLDWIDE

• "Mathematical Finance" of the Bernoulli-IMS One World Symposium 2020 (Prerecorded Talk)

Drought Monitoring of Marmara Region using Novel Machine Learning Tools

4-8 October 2019

MUGLA, TURKEY

• 11'th International Statistics Congress (ISC2019)

Parameter Estimations of Finite Mixture Models with Particular Optimization Tools

3-8 August 2019

BERLIN, GERMANY

• 6'th International Conference on Continuous Optimization (ICCOPT2019)

Understanding Drought with copula functions: Case study for Konya Province

3-7 October 2018

• 11'th International Statistics Days Conference (ISDC2018)

Mathematics in Theatre: Beckett's Quad Play and Consuming Space

7-11 March 2018

KRAKOW, POLAND

• EuroMath-EuroScience 2018, Joint Workshop with Gizem Gurer for young researchers

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bout Data Science	May 2021.
DEGAT BOZOK UNIVERSITY Departmental Seminar	
se of R for Actuarial Science	May 2021.
RIKKALE UNIVERSITY Seminar for a course	
emi-parametric copula directed acyclic graphs	April 2021.
IDDLE EAST TECHNICAL UNIVERSITY Departmental Seminar	
nalysis of drought using copulas and possible benefits of nonparametric approach	April 2020.
J LEUVEN ORSTAT Departmental Seminar	
urther Discussions on Mixture of Vines	August 2019
Invited by Ostap Okhrin	3
opula(s), advantages and limitations with its applications	October, 2017
IDDLE EAST TECHNICAL UNIVERSITY Advanced Modelling in Mathematical Finance. A Workshop in Honour of Azize Hayfavi's 75'th Birthday	
lixture of Vine Copulas for Complex Dependence Patterns	January 2017
IDDLE EAST TECHNICAL UNIVERSITY Statistics Departmental Seminar	
Conference/Symposium Organization	
SA Data Fest 2024 - Edinburgh (DataFest-2024)	March 2024
EMBER OF ORGANIZING COMMITTEE	Edinburgh
fS Annual Conference 2023 (CFS-2023) EMBER OF ORGANIZING COMMITTEE	June 2023 Edinburgh
LINDER OF ORGANIZATIO COMMITTEE	Zambargii
fS Researcy Day 2023 - Dealing with Messy Data	March 2023
EMBER OF ORGANIZING COMMITTEE https://centreforstatistics.maths.ed.ac.uk/cfs/events/past-events-and-recordings/2023-events/research-afternoon-messy-data	Edinburgh
fS Annual Conference 2022 (CFS-2022)	June 2022
EMBER OF ORGANIZING COMMITTEE	Edinburgh
https://centreforstatistics.maths.ed.ac.uk/cfs/events/the-cfs-annual-conference/cfsc-2022	
he 3. International Congress of Applied Statistics (UYİK-2022)	June 2022 Skopje
https://www.uyik.org/en	3κορμ
/hy R? 2022 Turkey	April 2022
ember of organizing committee http://whyr.pl/2022/turkey/	Turkey
hy R? 2021 Turkey	April 2021
ember of organizing committee https://github.com/whyr2021turkey	Turkey (Online,
'th International Conference on Continuous Optimization (ICCOPT2019)	August 2019
ESSION CHAIR The Technical University of Berlin (TU Berlin)	Berlin, Germany
'th International Conference on Computational Mathematics and Engineering Sciences CMES 2019)	April 2019
the first of the control of the cont	Antalya, Turkey
EMBER OF LOCAL COMMITTEE	
Akdeniz University	
	October 2018 Mugla, Turkey

MEMBER OF ORGANIZING COMMITTEE Ankara, Turkey • Atılım University International Conference on Applied Mathematics and Analysis (ICAMA), In Memory of Gusein July 2016 Guseinov MEMBER OF ORGANIZING COMMITTEE Ankara, Turkey · Atılım University References **Chris Sangwin** Teaching PROFESSOR OF MATHEMATICS EDUCATION • The University of Edinburgh c.j.sangwin@ed.ac.uk / +44 (0)131 650 5966 **Bruno Scarpa** Research PROFESSOR OF STATISTICS • University of Padua bruno.scarpa@unipd.it / +39 392 670 3028 **Gerda Claeskens** Research

September 2017

Research

30'th National Mathematics Symposium (UMS2017)

PROFESSOR OF STATISTICS

Ceylan Yozgatlıgil

ASSOC. PROFESSOR OF STATISTICS

• Katholieke Universiteit (KU), Leuven

Middle East Technical University, Ankara
ceylan@metu.edu.tr / +90 (312) 210 2963

• gerda.claeskens@kuleuven.be / +32 (0)16/32.6993