ASSOC. PROF. DR. ÖVGÜ ÇİDAR İYİKAL



CONTACT INFO.

Institution: Eastern Mediterranean University
Department: Mathematics
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Web Site: staff.emu.edu.tr/ovgucidar
Home: Famagusta . TRNC.

PERSONAL

Date of Birth: 1981
Marital Status: Married
Nationality: Turkish Cypriot

WORK EXPERIENCE

- 2005-2010 full-time research assistant at Department of Mathematics at EMU.
- 2011- nowon instructor at Department of Mathematics at EMU.
- 2 year part-time mathematics teacher for SAT courses at Nicosia Education Centre.
- 4 year part-time mathematics teacher for IGCSE and YGS/LYS courses at InterED.
- 1 semester Eastern Mediterranean Doğa College full-time mathematics teacher.
- REFEREE in Journals; IEEE Access, Pakistan Journal of Statistics & Operational Research, Journal of Kadirli Faculty of Applied Sciences.

EDUCATION

1998 Türk Maarif Koleji, Nicosia, TRNC
Mathematics.

1998 Trakya University, Edirne, Turkey
Undergraduate Program, Department of Mathematics. (transferred to EMU)

2002 Eastern Mediterranean University, Famagusta, TRNC
Undergraduate Program, Department of Applied Mathematics and Computer Science.

2004 Gazi University, Ankara ,Turkey
MSc Program, Department of Statistics.

2005 Hacettepe University, Ankara , Turkey
Phd Program, Department of Mathematics. (special student)

2007 Near East University, Nicosia, TRNC
Master Program, Department of Education.

2013 Eastern Mediterranean University, Famagusta, TRNC
Phd Program, Department of Mathematics.

SUBJECT/COVERAGE and RESEARCH AREAS

Education Language: English.

ENGLISH PROFICIENCY: YOKDIL

BSc Graduate Project: *Orthogonal Polynomials*

MSc Graduate Thesis: *Testing Methods of Scale and Location Parameters Against Simple Ordered Alternative*
PhD Graduate Thesis: *Smoothing Based on Stretched Interpolated Moving Average Method.*

Research Areas: Functional Principal Component Analysis, Multivariate Data Analysis, Smoothing, Numerical Linear Algebra, Applied Statistics, Mathematical Statistics.
Research Groups:

- Numerical Linear Algebra.
- Computational *Statistics*.
- Biostatistics

International Conferences Book of Abstracts:

1. Tandoğdu Y. and Çidar Ö. *Decomposition of Data Matrices Leading to Principal Component Analysis*, Conference of Mathematical Analysis Differential Equations and their Applications, Famagusta, TRCN, September 12-15, **2008**.

2. Tandoğdu Y. and Çidar Ö. *Smoothing the Global Mean Based on Functional Principal Component Analysis,* International Conference of Mathematical Sciences, Maltepe University, İstanbul, Turkey, August 4-10, **2009**.

3. Tandoğdu Y. and Çidar Ö. *Smoothing the Covariance Based on Functional Principal Component Analysis,* 14th International Congress of Computational and Applied Mathematics, Antalya, Turkey, September 29- October 2, **2009**.

4. Tandoğdu Y. and Çidar Ö. *Estimating the Principal Component Scores Through Maximum Likelihood Estimation Under Normality Assumption,* International Conference on Trends and Prespectives in Linear Statistical Inference, Tomar, Portugal, July 27- 31, **2010**.

5. Tandoğdu Y. and Çidar Ö. *Error Minimization in Functional Stretched Interpolated Moving Average,* 13th International Conference on Econometrics, Operational Research and Statistics, Famagusta, Cyprus, 24-26 May **2012**.

6. Tandoğdu Y. and Çidar Ö. *Error Minimization in Multivariate Stretched Interpolated Moving Average,* 13th International Conference on Econometrics, Operational Research and Statistics, Famagusta, Cyprus, 24-26 May **2012**.

7. Ö. Ç. Iyikal, A.Çelebi. *Investigating a quality of services in the public sector: Evidence from Northern Cyprus* International Scientific Conference Economic and Social Development, Bangkok, 18-20 February **2016**.

8. Buranay S. C and Iyikal O. C. *High Order Iterative Methods for Matrix Inversion and Regularized Solution of Fredholm Integral Equation of First Kind with Noisy Data*, 3rd International Conference on Computational Mathematics and Engeneering Sciences, Girne, Cyprus, 4-6 May **2018**.

9. Buranay S. C and Iyikal O. C. Incomplete Block Matrix Factorization of M-matrices Using Two Step Iterative Method For Matrix Inversion and Preconditioning. IECMSA-2019 8th International Eurasian Conference On Mathematical Sciences And Applications Baku / Azerbaijan, 27-30 August **2019**.

10. İyikal Ö. Ç. Estimate The Jury Member's Scores of Figure Skating Based on FPCA and Regression Analysis, Abtract Book of ISC 2019, 11. International Statistics Congress, Bodrum, Turkey, 4-8 October, **2019**.

11. İyikal Ö. Ç. Errors of the Smoothing Techniques. ICAME 2021, 2. International Conference on Applied Mathematics in Engineering, Balıkesir, Turkey, 1-3 September, **2021**.

12. Subasi E. and Iyikal O. Revitalizing cultural tourism in Famagusta's walled city through museum restoration an Lusignan-Venetian fortified heritage site, ICOT 2025, Dubrovnik, Croatia 25-28 June, **2025**.

International Conferences Proceedings Book:

1. İyikal Ö. Ç. & Çelebi A. Investigating A Quality of Services in The Public Sector: Evidence From Northern Cyprus , Economic and Social Development Book Series: International Scientific Conference on Economic and Social Development pp:25-38, 2016.

2. Buranay S. C and Iyikal O. C. High Order Iterative Methods for Matrix Inversion and Regularized Solution of Fredholm Integral Equation of First Kind with Noisy Data, ITM web of conferences, CMES 2018.

3. İyikal Ö. Ç. Estimate The Jury Member's Scores of Figure Skating Based on FPCA and Regression Analysis, Proceedings Book of ISC 2019, 11. International Statistics Congress, Bodrum, Turkey, 4-8 October, 2019.

Publications:

1. Tandogdu Y., Iyikal, Ö. Ç. *Stretched Interpolated Moving Average Technique as a Smoother*, 2013. Pakistan Journal of Statistics, Vol. 29(4), pp: 431-446. **SCIE**

2. İyikal Ö. Ç. & Çelebi A. *Investigating a Quality of Services in the Public Sector: Evidence from Northern Cyprus ,* Journal of Economic and Social Development, vol. 3 (2), 2016 **ECONBIZ, PROQUEST**.

3. Buranay S. C., Subaşı D., İyikal Ö. Ç. *On the two Classes of higher order Convergent Methods of Approximate Inverse Preconditioners for Solving Linear Systems, 2017.* Numerical Linear Algebra with Applications, DOI: 10.1002/nla.2111 **SCI**

4. Buranay S. C., İyikal Ö. Ç. Approximate Schur-Block ILU Preconditioners for Regularized Solution of Discrete Ill-Posed Problems, Mathematical Problems in Engineering, 2019, Article ID 1912535, 18 pages https://doi.org/10.1155/2019/1912535. **SCIE**

5. Buranay S. C., İyikal Ö. Ç. *A Predictor Corrector Iterative Method For Solving Linear Least Squares Problems And Perturbation Error Analysis*. Journal of Inequalities and Applications, 2019, Article ID JIAP-D- 19-00284R1. **SCIE**

6. Buranay S. C., İyikal Ö. Ç. *Incomplete Block-matrix factorization of M-matrices Using Two-step Iterative Method for Matrix Inversion and Preconditioning*. Mathematical Methods in The Applied Sciences. 2021, Vol. 44, 9, Page7634-7650 DOI 10.1002/mma.65022021, **SCIE**

7. İyikal Ö. Ç. *Numerical Investigation of the Two-Dimensional Fredholm Integral Equations of the Second Kind by Bernstein Operators.* Symmetry 2022, 14, 625. https://doi.org/10.3390/sym14030625 **SCIE**

8. İyikal Ö. Ç. *Numerical Solution of Sylvester Equation Based on Iterative Predictor-Corrector Method*, Journal of Mathematics, 2022, 13 pages. https://doi.org/10.1155/1970/6571126 **SCIE**

EXPERIENCED COURSES AT UNIVERSITY

BİLG 111	Bilgisayara Giriş
COMP 101	Introduction to Computers
MATE 103	Soyut Matematik
MATE 107	Temel Matematik
MATE 109	Temel Matematik ve İstatistik
MATE 117	Elektrik Teknisyenleri için Matematik
MATE 153	İşletme ve Ekonomi için Matematik 1
MATE 154	İşletme ve Ekonomi için Matematik 2
MATE 167	Sosyal Bilimler için Matematik
MATE 191	Tasarımcılar için Geometri ve Matematik
MATE 201	Diferansiyel Denklemler 1
MATE 211	Biyoistatistik
MATE 305	Olasılık ve İstatistiğe Giriş
MATE 309	Olasılık ve İstatistik 1
MATE 310	Olasılık ve İstatistik 2
MATE 322	Diferansiyel Denklemler
MATE 332	Olasılık ve İstatistik
MATE 373	Sayısal Analiz
MATH 103	Mathematics for Business and Economics 1
MATH 104	Mathematics for Business and Economics 2
MATH 105	Mathematics for Social Sciences
MATH 115	Temel Matematik
MATH 124	Geometry
MATH 133	Basic Mathematics
MATH 151	Calculus 1
MATH 155	Mathematics
MATH 167	Mathematics for Arts and Social Sciences
MATH 168	Mathematics and Statistics
MATH 171	Biostatistics 1
MATH 172	Biostatistics 2
MATH 176	Biostatistics
MATH 191	Mathematics for Designers
MATH 211	Introduction to Statistics
MATH 212	Biostatistics
MATH 223	Linear Algebra
MATH 233	Statistics for Public Relations and Advertising
MATH 233 Lab	Application on SPSS
MATH 243	Basic Statistics
MATH 252	Numerical Methods and Complex Analysis
MATH 322	Probability and Statistical Methods
MATH 323	Probability Theory
MATH 324	Statistics

MATH 348	Regression Analysis
MATH 373	Numerical Analysis for Engineers
STAT 361	Sampling Techniques

2024/ 2025 Spring

Crs.Code	Course Name	Gr.
MATE332	Probability and Statistical Methods	01
MATH172	Biostatistics-II	01
MATH176	Biostatistics	01
MATH211	Introduction to Statistics	01
MATH212	Biostatistics	01
MATH373	Numerical Analysis for Engineers	02

2025/ 2026 Fall

Crs.Code	Course Name	Gr.
MATH171	Biostatistics - I	01
MATH172	Biostatistics-II	01
MATH176	Biostatistics	02
MATH176	Biostatistics	01
MATH212	Biostatistics	03
MATH348	Regression Analysis	01
MATH373	Numerical Analysis for Engineers	02
STAT361	Sampilng Techniques	01

Departmental Duties

- Research Committee (Volunteered Member)
- Prospective Students Committee (Volunteered Member)

SKILLS

Computer Programs: SPSS,
Lindo,
SWP,
Matlab,
Microsoft Office ,
Mathematica,
Fortran,
C++.

Driving Licence: Clean Cyprus Driving Licence of Class B (car only).

INTERESTS (Hobbies):

Tennis, step and aerobics, training, running, cycling, tae-boo, piano, guitar, football, travelling, plates, research, cars and animals.

REFERENCES:

1. **Prof. Dr. Hamza Gamgam**
   Gazi University,
   Department of Statistics,
   Ankara, Turkey.
   Mobile: 0533 2243974
   e-mail: h.gamgam@gazi.edu.tr

2. **Prof. Dr. Suzan Cival Buranay**
   Eastern Mediterranean University,
   Department of Mathematics,
   Famagusta, Cyprus.
   Office phone: 0392 6302410
   e-mail: suzan.buranay@emu.edu.tr

3. **Prof. Dr. Derviş Subaşı**
   Eastern Mediterranean University,
   Department of Mathematics,
   Famagusta, Cyprus.
   Office phone: 0392 6301138
   e-mail: dervis.subasi@emu.edu.tr