

EMİNE ŞULE YAZICI

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Date of birth: 1/15/1978

Country of Citizenship: TURKEY

EDUCATION

- **AUBURN UNIVERSITY** Department of Discrete and Statistical Sciences, AL, USA
Degree earned: Doctor of Philosophy (Aug 2003)
Advisor: Distinguished University **Professor Charles Curtis Lindner**
Dissertation subject: “Metamorphosis of 2-fold 4-cycle systems into maximum packings of 2-fold 6-cycle systems”
- **BOĞAZIÇI UNIVERSITY** Department of Mathematics, İST, TURKEY
Degree attended: Master of Science
Dates attended: Jan 2000 - May 2000
- **BOĞAZIÇI UNIVERSITY** Department of Mathematics, İST, TURKEY
Degree earned: Bachelor of Science (Jan 2000)

RESEARCH AREAS

Design Theory, Graph Theory and Computational Mathematics

WORK EXPERIENCE

- **Visiting Academic** (Jul-Aug 2007), The University of Queensland, Australia.
- **Visiting Academic** (Jul-Aug 2006), Auburn University, USA.
- **Assistant Professor of Mathematics** (Sep 2005-), Koç University, TURKEY
- **Post-Doctoral Research Fellow** (Jul 2004- Jun 2005), University of Queensland, QLD, AUSTRALIA
- **Post Doctoral Position** (Aug 2003- May 2004), Auburn University, Auburn, AL, USA.
- **Graduate Teaching Assistant** (Aug 2000- Aug 2003), with full tuition waiver and stipend, Auburn University, Auburn, AL, USA.
- **Internship** (Jul-Aug 1999), Osmanlı Bank, Information Technology Department, TURKEY

PUBLICATIONS

- E. J. Billington, C.C. Lindner, S. Küçükçifçi and E. Ş. Yazıcı, “*Embedding 4-cycle systems into octagon triple systems*”, *Utilitas Mathematica*, 79 (2009), 99-106.
- N. Cavenagh, D. Donovan and E. Ş. Yazıcı, “*Minimal homogeneous Steiner 2-(v,3) trades*”, *Discrete Mathematics*, 308 (2008), no. 5-6, 741-752.
- G. Havas, J. L. Lawrence, C. Ramsey, A. P. Street and E. Ş. Yazıcı, “*The Defining Set Spectrum of Designs can have Arbitrarily Large Gaps*”, *Utilitas Mathematica*, 75 (2008), 67-81.
- E. J. Billington, C. C. Lindner and E. Ş. Yazıcı, “*The triangle intersection problem for $K_4 - e$ designs*”, *Utilitas Mathematica*, 73 (2007), 3-21.
- E. Ş. Yazıcı, S. Küçükçifçi, M. Çağlar and Ö. Özkasap, “*Exact Probability distributions for peer-to-peer Epidemic Information Diffusion*”, *ACM SIGMETRICS Performance Evaluation Review*, 34 (2007), No 3, 6-8.
- Ö. Özkasap, E. Ş. Yazıcı, S. Küçükçifçi and M. Çağlar, “*Exact Performance Measures for peer-to-peer Epidemic Information Diffusion*”, *Lecture Notes in Computer Science*, Springer Verlag, 4263 (2006), pp.866-876.
- N. J. Cavenagh, D. M. Donovan and E. Ş. Yazıcı, “*Minimal Homogeneous latin trades*, *Discrete Math.* 306 (2006), no. 17, 2047-2055.
- E. Ş. Yazıcı, “*Metamorphosis of 2-fold 4-cycle systems into maximum packings of 2-fold 6-cycle systems*”, *Australas. J. Combin.*, 32 (2005), 331- 338.
- C. C. Lindner and E. Ş. Yazıcı, “*The triangle intersection problem for kite systems*”, *Ars Combinatoria*, 75 (2005), 225-231.
- **To Appear:** “*The full metamorphosis of λ -fold block designs with block size four into λ -fold 4-cycle systems*” with C. C. Lindner and S. Küçükçifçi, “*Ars Combinatoria*”.
- **To Appear:** “*The full metamorphosis of λ -fold block designs with block size four into λ -fold triple systems*” with C. C. Lindner and S. Küçükçifçi, “*Ars Combinatoria*”.
- **To Appear:** “*An analytical framework for self-organizing peer-to-peer anti-entropy algorithms*” with S. Küçükçifçi, M. Çağlar and Ö. Özkasap, “*Performance Evaluation*”.
- **To Appear:** “*On defining sets of full designs with block size three*” with D. Donovan, J. Lefevre and M. Waterhouse, “*Graphs and Combinatorics*”.
- **To Appear:** “*On minimal defining sets of full designs and self-complementary designs, and a new algorithm for finding defining sets of t -designs*” with E. Kolotoğlu, “*Graphs and Combinatorics*”.
- **Submitted:** “*Defining sets of full designs with block size three II*” with D. Donovan, J. Lefevre and M. Waterhouse.
- **Submitted:** “*On minimal defining sets of full designs*” with F. Demirkale.
- **Submitted:** “*The full metamorphosis of λ -fold block designs with block size four into λ -fold kite systems*” with S. Küçükçifçi, and B. Smith.
- **Submitted:** “*On regular embedding of H -designs into G -designs*” with S. Küçükçifçi, G. Quattrocchi and B. Smith.

POPULAR SCIENCE ARTICLES

- E. Ş. Yazıcı, “*Latin ve Grekoromen Kareler*”, Matematik Dünyası, (2004) Kış, Yıl 13, Sayı 4, 9-12.
- Ali Nesin ve E. Ş. Yazıcı, “*Latin Dönüşümleri*”, Matematik Dünyası, (2004) Kış, Yıl 13, Sayı 4, 13-16.
- E. Ş. Yazıcı, “*Doğuran Fonksiyonlar*”, Matematik Dünyası, (2005) Bahar, Yıl 14, Sayı 1, 37-38.

MASTER THESIS SUPERVISED

- **Fatih Demirkale**, “*On minimal defining sets of full designs*”, Boğaziçi University, 2009. (Thesis Advisor)
- **Emre Kolotoğlu**, “*A new algorithm for finding the complete list of minimal defining sets of t -designs*”, Koç University, 2007. (Thesis Advisor)
- **Çiçek Güven**, “*Colorings of Steiner triple systems*”, Koç University, 2007. (Member of Thesis Committee)
- **Emrah Ahi**, “*Design and analysis of a novel buffer management model for reliable content dissemination*”, Koç University, 2007. (Member of Thesis Committee)
- **Güven Yüçetürk**, “*Group Divisible Designs*”, Koç University, 2006. (Member of Thesis Committee)

PROJECTS AND AWARDS

- **Associate Professorship** (Feb 2008), Higher Education Council of Turkey
- **TUBITAK, Career Project** (1/1/2007-31/12/2009), *A secret sharing method: Defining sets in combinatorial designs*;
- **Ethel Raybould Visiting Academic Fellowship** (2007), The University of Queensland, Brisbane, Australia

PROFESSIONAL SERVICES

- **Refereed for:**
 - Discrete Mathematics
 - Ars Combinatoria
 - Utilitas Mathematica
 - Designs, Codes & Cryptography
 - Journal of Combinatorial Mathematics & Combinatorial Computing
 - Bulletin of Institute of Combinatorics & Its Applications
- **Reviewed for :**
 - Mathematical Reviews

MEMBERSHIPS

- Turkish Mathematical Society
- Institute of Combinatorics and Its Applications
- Combinatorial Mathematics Society of Australasia (CMSA)
- American Mathematical Society

PROFESSIONAL ACTIVITIES

- **Attended:** International Workshop on Combinatorial Algorithms, Opava, Czech Republic, 2009.
- **Attended and presented:** “*Defining sets of combinatorial designs: An overview*”, BIRS Combinatorial Design Theory Workshop, Banff, Canada, 2008.
- **Attended and presented:** “*The full metamorphosis of λ -fold block designs with block size four*”, Istanbul design Theory and Combinatorics Conference, Istanbul, Turkey, 2008.
- **Attended and presented:** “*The full metamorphosis of λ -fold block designs with block size four into λ -fold kite systems*”, Combinatorics 2008, Costermano, Italy, 2008.
- **Invited lecture presented:** “*A new algorithm for finding the complete list of minimal defining sets of t -designs*”, Workshop on Graph Decompositions and Related Trade Structures, University of Queensland, QLD, Australia, 2007.
- **Attended and presented:** “*A new algorithm for finding defining the complete list of minimal defining sets of t -designs*”, 21th British Combinatorial Conference, University of Reading, Reading, UK, 2007.
- **Attended and presented:** “*The full metamorphosis of λ -fold block designs with block size four into λ -fold 4-cycle systems*”, Design Theory of Alex Rosa, Bratislava, Slovakia, 2007.
- **Invited lecture presented:** “*Minimal latin ve homojen deęişimler*”, XIX. Ulusal Matematik Sempozyumu, Dumlupınar University, Kütahya, Turkey, 2006.
- **Attended and presented:** “*Combinatorial analysis of epidemic information diffusion in peer to peer networks*”, Combinatorics 2006, Ischia, Italy, 2006.
- **Invited lecture presented:** “*Minimal homogeneous latin and steiner trades*”, Workshop on Algebraic and Geometric Aspects of Latin Trades, Prague, Czech Republic, 2006.
- **Attended and presented:** “*Minimal homogeneous steiner trades*”, 20th British Combinatorial Conference, University of Durham, Durham, UK, 2005.
- **Attended and presented:** “*A comprehensive approach to minimal defining sets in designs*”, The 29th Australasian Conference in Combinatorial Mathematics and Combinatorial Computing (ACCMCC), Lake Taupo, New Zealand, 2004.
- **Attended:** Paul Erdős Lecture Series, University of Memphis, Memphis, TN, 2004.
- **Attended and presented:** “*The intersection problem for kite systems, kite triple systems and commutative half idempotent latin squares*”, 17th Mid-West Conference on Combinatorics, Cryptography and Computing (MCCCC); University of Nevada, Las Vegas, NV, 2003.
- **Attended:** 18th Annual Clemson Mini-Conference in Graph Theory; Clemson, SC, 2003.

- **Attended and presented:** “*Metamorphism problem of 2-fold 4-cycle systems into maximum packings of 2-fold 6-cycle systems*”, 34th Annual Southeastern Conference on Combinatorics, Graph Theory, and Computing; Boca Raton, FL, 2002.
- **Attended and presented:** “*Metamorphism problem of 2-fold 4-cycle systems into maximum packings of 2-fold 6-cycle systems*”, 16th Mid-West Conference on Combinatorics, Cryptography and Computing (MCCCC); Southern Illinois University, Carbondale, IL, 2002.
- **Attended:** 33rd Annual Southeastern Conference on Combinatorics; Graph Theory, and Computing; Boca Raton, FL, 2002.
- **Attended:** 15th Mid-West Conference on Combinatorics, Cryptography and Computing (MCCCC); University of Nevada, Las Vegas, NV, 2001.
- **Attended:** 32nd Annual Southeastern Conference in Combinatorics, Graph Theory, and Computing; Baton Rouge, LA, 2001.
- **Attended:** 15th Annual Clemson Mini- Conference in Graph Theory; Clemson, SC, 2000.