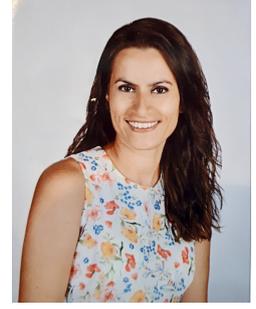


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Address: Tuzla, İstanbul
Date of birth: 14.02.1985
Date of place: İzmir
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Professional Experiences

- 2016 – 2017 **Postdoctoral researcher in Mathematics department**, Salzburg University, Salzburg, Austria. Financed by Austrian FWF project with the title "Arithmetic Primitives for Uniform Distribution Modulo 1". Project leader : Prof. Dr. Peter Hellekalek.
- 2015 – 2016 **Postdoctoral researcher in Mathematics department**, Sabancı University, Istanbul, Turkey. Financed by Tübitak project with the title "Sonlu cisimler üzerinde tanımlı Polinomlar, Teori ve Uygulamalar II". Project leader : Prof. Dr. Henning Stichtenoth.

Education

- 2011 – 2015 **Ph.D. Mathematics**, Sabancı University, İstanbul.
Thesis title: *On Complete Mapping and Value Sets of Polynomials over Finite Fields.*
- 2008 – 2011 **M.Sc. Mathematics**, Sabancı University, İstanbul.
Thesis title: *On the Minimum Distance of Cyclic Codes.*
- 2003 – 2008 **B.Sc. Mathematics**, Dokuz Eylül University, İzmir.

Research Publications

- On the Index of the Diffie-Hellman Mapping, "Applicable Algebra in Engineering Communication and Computing", 2020 (with A. Winterhof)
<https://link.springer.com/article/10.1007/s00200-020-00475-3>
- Maximum-order Complexity and Correlation Measures, published in "Cryptography", 2017 (with A. Winterhof) <http://www.mdpi.com/2410-387X/1/1/7>
- Index and Carlitz rank of Permutation Polynomials, published in "Finite Fields and Their Applications", 2017 (with A. Winterhof) <https://www.sciencedirect.com/science/article/pii/S1071579717301065>
- Complete Mappings and Carlitz Rank, published in "Design Codes and Cryptography", 2016 (with A. Topuzoğlu, A. Winterhof) <http://link.springer.com/article/10.1007/s10623-016-0293-5>
- A Note on Value Sets of Polynomials over Finite Fields (with A. Topuzoğlu)
<https://arxiv.org/pdf/1701.06158.pdf>.

Referee for :

- IEEE Transactions on Information Theory
- Advances in Maths & Communications
- Applicable Algebra in Engineering, Communication and Computing

Invited Talks

- Canterbury University, New Zealand  Maximum Order Complexity and Correlation Measures, September 30, 2019.
- VUB, Brussels, Belgium  On the Index of Permutation Polynomials, January 17, 2017.
- Mimar Sinan Fine Arts University, Turkey  Index and Carlitz rank of Permutation Polynomials, December 1, 2016.
- Gebze Technical University, Turkey  Index and Carlitz rank of Permutation Polynomials, November 4, 2016.
- University of Salzburg, Austria  A note on Value Sets of Polynomials over Finite Fields, April 26, 2016.
- The University of Naples Federico II, Italy  On Complete Maps and Value Sets of Polynomials over Finite Fields, March 18, 2016.
- University of Zurich, Switzerland  On Complete Maps and Value Sets of Polynomials over Finite Fields, December 16, 2015.

International Conference Talks

- Workshop on Polyns and Curves over \mathbb{F}_q
ICMS & Sabanci University, Istanbul, Turkey  Maximum Order Complexity and Correlation Measures, 20 - 22 May 2019.
- 12th \mathbb{F}_q Conference, New York, USA  On Complete Mappings of Finite Fields, July 13-17, 2015.
- 4th Irsee Conference, Germany  On Complete Mappings of Finite Fields, September 14-20, 2014.
- XVI. Antalya Algebra Days, Antalya, Turkey  On the Minimum Distance of Cyclic Codes, 09-13 May, 2014.

Teaching Experience

- 2020-2021, Fall  **İstinye University**, Linear Algebra with Applications, Maths for Social Sciences, Lecturer
 **İstinye University**, Differential Equations, Lecturer
- 2019-2020, Spring  **İstinye University**, Linear Algebra with Applications, Computer Algebra Programming with Sage, Lecturer
- 2019-2020, Fall  **İstinye University**, Differential and Integral Calculus, Lecturer
- 2018-2019, Summer  **Sabancı University**, Linear Algebra, Lecturer
- 2018-2019, Spring  **Bilgi University**, Introduction to Probability, Lecturer
- 2018-2019, Fall  **Piri Reis University**, Linear Algebra, Lecturer
- 2017-2018, Summer  **Şehir University**, Calculus 1, Lecturer
 **Sabancı University**, Linear Algebra, Lecturer
- 2017-2018, Spring  **Piri Reis University**, Basic Mathematics II, Probability and Statistics, Lecturer
- 2017-2018, Fall  **Okan University**, Applied Mathematics, Calculus, Lecturer
- 2008-2015  **Sabancı University**, Calculus I-II, Linear Algebra, Discrete Mathematics, Differential Equations, Number Theory, Introduction to Algebra, Teaching Assistant.

Skills

Coding 📌 Python, Sage, Magma, Matlab, Mathematica, \LaTeX , Word, Excel ...
Languages 📌 English - advanced, Italian - intermediate, German - intermediate.

Scholarships

2006-2007 📌 Ahmet Pıřtina Scholarship.
2008-2011 📌 Sabancı University, M.Sc in Mathematics, full scholarship.
2011-2015 📌 Sabancı University, PhD in Mathematics, full scholarship.

Part-Time Work Experiences

2004 – 2005, Summer 📌 **Manager**, Lost Children Center, İZFAŞ, İzmir,
2005, August 📌 **Interpreter**, Universiade, Izmir.
2008 – 2015 📌 **Teaching Assistant**, Sabancı University, İstanbul.

References

Prof. Dr. Arne Winterhof 📌 Johann Radon Institute for Computational and Applied Mathematics Austrian Academy of Sciences, Altenbergerstr. 69, 4040 Linz, Austria.
arne.winterhof@ricam.oeaw.ac.at

Prof. Dr. Peter Hellekalek 📌 Mathematics Department, Salzburg University, Hellbrunner Str. 34, 5020 Salzburg, Austria.
peter.hellekalek@sbg.ac.at

Prof. Dr. Alev Topuzođlu 📌 Sabancı University, Faculty of Engineering and Natural Sciences, Tuzla, 34956 Istanbul, Turkey.
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Prof. Dr. Cem Güneri 📌 Sabancı University, Faculty of Engineering and Natural Sciences, Tuzla, 34956 Istanbul, Turkey.
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