Samet Sarıoğlan

CONTACT INFORMATION

TED University Department of Mathematics 06420 Kolej Cankaya Ankara Turkey

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EDUCATION

• Hacettepe University Department of Mathematics

Ankara, Turkey Sep. 2014 – Sep. 2019

Ph. D.: GPA: 3.93

Advisor: Prof. Dr. Selma Altınok

Thesis: Algebraic Structure of Generalized Splines

• Hacettepe University Department of Mathematics

Ankara, Turkey Feb. 2013 – Sep. 2014

Master of Science; GPA: 3.75 Advisor: Prof. Dr. Sinem Onaran Thesis: Invariants of Legendrian Knots

• Hacettepe University Department of Mathematics and Science Education Bachelor of Education; GPA: 3.02

Ankara, Turkey Sep. 2006 – June 2012

Research Areas

Algebraic geometry, commutative algebra, algebraic graph theory, spline theory.

Languages

- English (fluent)
- German (intermediate)
- Turkish (native)

Grants

• The Scientific and Technological Research Council of Turkey (TÜBİTAK), 2219-International Postdoctoral Research Fellowship Program for Turkish Citizens

2022 - 2023

• The Scientific and Technological Research Council of Turkey (TÜBİTAK), 2211-PhD Scholarship Programs

2014 - 2018

Publications & Preprints

- 1. S. Altinok, K. Anders, D. Arreola, L. Asencio, C. Ireland, S. Sarioğlan, L. Smith. Generalized graph splines and the Universal Difference Property, Discrete Mathematics, 347(6), (2024). doi: 10.1016/j.disc.2024.113949
- 2. S. Fişekci, S. Sarıoğlan. Basis condition for generalized spline modules, Journal of Algebraic Combinatorics, 59(2) 359–369, (2024). doi: 10.1007/s10801-023-01290-y
- 3. S. Sarioğlan, S. Altinok. Multivariate generalized splines and syzyqies on graphs, Journal of Algebra and its Applications, 23(2), (2024). doi: 10.1142/S0219498824500397
- 4. S. Altınok, S. Sarıoğlan. Basis criteria for generalized spline modules via determinant, Discrete Mathematics, 344(2), (2021). doi: 10.1016/j.disc.2020.112223
- 5. S. Altmok, S. Sarioğlan. Flow-up bases for generalized spline modules on arbitrary graphs, Journal of Algebra and its Applications, 20(10), (2021). doi: 10.1142/S0219498821501802

1. The universal difference property on generalized splines

Hacettepe University Scientific Research Projects, FHD-2022-19802 Work Experience • TED University, Ankara Turkey Sep. 2024 - present Lecturer (Part Time) • Hacettepe University, Ankara Turkey Jan. 2020 - Aug. 2024 Lecturer • TED University, Ankara Turkey June 2019 - Jan. 2020 Lecturer (Part Time) Teaching Experience • MATH 203: Linear Algebra and Differential Equations 2023-2024 Spring TED University, Ankara, Turkey Course Language: English • SNF101: Ilkokulda Temel Matematik (Basic Mathematics in Elementary Education) 2021-2022 Fall Hacettepe University, Ankara, Turkey Course Language: Turkish • MKÖ370: Sayılar Teorisine Giriş (Introduction to Number Theory) 2020–2021 Spring Hacettepe University, Ankara, Turkey Course Language: Turkish • MATH 101: Calculus of One Variable 2019-2020 Fall TED University, Ankara, Turkey Course Language: English • MATH 111: Introduction to Calculus of One Variable 2019-2020 Fall TED University, Ankara, Turkey Course Language: English • MATH 109: Basic Calculus 2018–2019 Summer TED University, Ankara, Turkey Course Language: English • MATH 111: Introduction to Calculus of One Variable 2018–2019 Summer TED University, Ankara, Turkey Course Language: English Talks

2022 - 2023

- 15th Ankara Mathematics Days, Ankara Hacı Bayram Veli University, Ankara, Turkey. May 24, 2024
- 14th Spring Math Meeting, Cankaya University, Ankara, Turkey. April 21, 2024
- SIAM Conference on Applied Algebraic Geometry (AG23), Eindhoven University of Technology, the Netherlands. July 13, 2023
- Discrete Math Workshop, Smith College, USA. May 6, 2023

- Math Lunch Talk Series, Smith College, USA. February 9, 2023
- Texas Number Theory and Combinatorics Seminar, The University of Texas at Tyler, USA. October 25, 2022 (online)
- Hacettepe University Department of Mathematics General Seminars, Hacettepe University, Ankara, Turkey. March 16, 2022 (online)
- Turkish Journal of Mathematics Studies on Scientific Developments in Geometry, Algebra, and Applied Mathematics.
 - February 3, 2022 (online)
- Texas Number Theory and Combinatorics Seminar, The University of Texas at Tyler, USA. October 21, 2021 (online)
- ICMME 2021, Gazi University, Ankara, Turkey. September 17, 2021 (online)
- ICPAM Van 2020, Van Yüzüncü Yıl University, Van, Turkey. September 3–5, 2020 (online)
- 32. National Mathematics Symposium, Ondokuz Mayıs University, Samsun, Turkey. August 31–September 3, 2019
- Workshop on Commutative Algebra and Combinatorics II, Hacettepe University, Ankara, Turkey. June 17–18, 2019
- WGT Workshop on Graph Theory and its Applications VIII, Boğaziçi University IMBM, Istanbul, Turkey. November 10, 2018
- 6th LMS Meeting on Applied Algebra and Geometry, Swansea University, Swansea, UK. September 10, 2018
- Workshop on Commutative Algebra and Combinatorics, Hacettepe University, Ankara, Turkey. May 5, 2018
- 13th Ankara Mathematics Days, TOBB University, Ankara, Turkey. April 27, 2018

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onferences & Seminars Attended	
• Joint Mathematics Meeting 2023, Boston, USA	4–7 January 2023
• Discrete Math Workshop, Smith College, USA	19 November 2022
• Applied and Computational Geometry Workshop, Loughborough University, UK	12–14 September 2018
• İzmir Mathematics Days, Yaşar University, İzmir, Turkey	26–27 June 2018
• Higher Homotopy Groups (Turgut Önder), Çakılarası Matematik Köyü, Eskişehir, Turkey	17–21 July 2017
• TWIM Graduate Summer School II, METU, Ankara, Turkey	13–22 June 2017
• 12th Ankara Mathematics Days, Hacettepe University, Ankara, Turkey	25–26 May 2017
• Topology-Geometry Workshop, Hacettepe University, Ankara, Turkey	10 February 2017

• 10th Ankara Mathematics Days, METU, Ankara, Turkey	11–12 June 2015
• 22nd Gökova Geometry Topology Conference, Gökova, Turkey	25–30 May 2015
• Atılım Geometry Topology Workshop, Atılım University, Ankara, Turkey	15–16 May 2015
\bullet Workshop on Algebraic and Geometric Topology, METU, Ankara, Turkey	9–10 January 2015
• Workshop on Contact Topology, Hacettepe University, Ankara, Turkey	25 October 2014
• 9th Ankara Mathematics Days, Atılım University, Ankara, Turkey	12–13 June 2014
• 21st Gökova Geometry Topology Conference, Gökova, Turkey	26–31 May 2014
• 13th Mathematics Symposium, Karabük University, Turkey	15–17 May 2014
• I. TWIM Workshop, Gebze Technical University, Turkey	2–4 May 2014
• II. TWIM Geometry Topology Summer School, Boğaziçi University, Istanbul, Turkey	26–30 August 2013
• 8th Ankara Mathematics Days, Çankaya University, Ankara, Turkey	13–14 June 2013
• 12th Mathematics Symposium, Hacettepe University, Ankara, Turkey	23–25 May 2013

Administrative Duties

- Member of organization committee,
 Workshop on Commutative Algebra and Combinatorics II, Hacettepe University, Ankara, Turkey.
 17–18 June 2019
- Member of organization committee,
 Workshop on Commutative Algebra and Combinatorics, Hacettepe University, Ankara, Turkey.
 5 May 2018

Computer Skills

Microsoft Office Word/Excel/Powerpoint, HTML, Adobe Illustrator/Photoshop, LaTeX, Maple, Macaulay2, Computations in Commutative Algebra (CoCoA)

References

• Prof. Dr. Selma Altınok

Hacettepe University Department of Mathematics

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• Prof. Dr. Senol Dost

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• Prof. Dr. Sinem Onaran

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