

CURRICULUM VITAE
as of February 2020

FARUK TEMUR
İzmir Institute of Technology
Department of Mathematics
Urla, İzmir, 35430
Country of citizenship: Turkey

EDUCATION

2009-2013

Ph.D in Mathematics, Department of Mathematics, University of Illinois at Urbana-Champaign, IL, USA
Thesis: Linear and bilinear restriction estimates for the Fourier transform
Advisor: M. Burak Erdoğın

2005-2009

B.S in Mathematics, Department of Mathematics, Bilkent University, Ankara, Turkey

2001-2005

High School Diploma, Mehmet Niyazi Altuğ Lisesi (Y.D.A)

RESEARCH INTERESTS

Primary: Harmonic analysis

Secondary: Probability, Partial Differential Equations, Dynamical Systems, Number Theory.

LANGUAGES

Turkish (Native)

English (Excellent)

German (Elementary)

COMPUTER SKILLS

Computer Languages: MatLab, JAVA

Softwares: Latex, Microsoft Office, Linux

TEACHING EXPERIENCE

Undergraduate level: calculus, linear algebra I, linear algebra II, differential equations, analysis, dynamical systems, differential geometry

Graduate level: real analysis, stochastic calculus and finance

STUDENTS

Undergraduate level: Zübeyde Ecem Dayan, Elif Öden, Gülistan Özer, Kayhan Turan, Ramazan Çalışkan, Sümeyra Çeliker, Fatma Akbaba, Emre Yılmaz, Melis Öksüm, Cansu Yer, Ece Özlem Alkan

Graduate level: Ezgi Sert, Ege Tamcı, Cihan Sahillioğulları

DISTINCTIONS

May 2009, B.S in Mathematics, CGPA 3.59/4.00, 1st place

September 2008, 2008 Orhan Alisbah Fellow

June 2005, University entrance examination (OSS), Ranked 86th among over 1,500,000 examinees

June 2005, Graduated with High Honors from High School, CGPA:5.00/5.00

SCHOLARSHIPS

2008, Orhan Alisbah Fellowship

2005-2009, Bilkent University Scholarship for students ranked in top 100 on University Entrance Examination (OSS)

2005-2009, Kredi ve Yurtlar Kurumu (KYK) Scholarship for students ranked in top 100 on University Entrance Examination (OSS)

Research Assistantships, University of Illinois at Urbana-Champaign: Summer 2010, Spring 2011, Summer 2011, Spring 2012, Summer 2012, Fall 2012

PUBLICATIONS

1. With Ezgi Sert. Discrete fractional integral operators with binary quadratic forms as phase polynomials. *Journal of Functional Analysis*, 277(12), (2019), 108287, Doi: 10.1016/j.jfa.2019.108287
2. Level Set Estimates for the Discrete Frequency Function. *Journal of Fourier Analysis and Applications*, 25(3), 1008-1025., (2019), Doi: 10.1007/s00041-018-9595-5
3. The frequency function and its connections to the Lebesgue points and the Hardy–Littlewood maximal function. *Turkish journal of mathematics*, 43(3), 1755-1769., (2019), Doi: 10.3906/mat-1901-41
4. A quantitative Balian–Low theorem for higher dimensions. *Georgian Mathematical Journal*, (2018). Doi: 10.1515/gmj-2018-0046,
5. A Fourier restriction estimate for surfaces of positive curvature in \mathbb{R}^6 . *Revista Matemática Iberoamericana*, 30(3), 1015-1036., (2014), Doi: 10.4171/RMI/805,
6. An endline bilinear cone restriction estimate for mixed norms. *Mathematische Zeitschrift*, 273(3-4), 1197-1214., (2013), Doi: 10.1007/s00209-012-1050-8

TALKS

1. Discrete fractional integral operators with quadratic bivariate phase polynomials. *International Workshop on Harmonic Analysis and Operator Theory*, 31-32, (2019).
2. An application of quadratic forms to discrete fractional integrals. 31. *Journées Arithmétiques*, 64-64, (2019).
3. Frequency Approach to Maximal Functions. *IMBM Matematik günleri III*, (2019).
4. Hardy-Littlewood maximal fonksiyonunun dinamik özellikleri. 31. *Ulusal matematik sempozyumu*, 57, (2018).
5. Quantitative uncertainty principles. *Caucasian Mathematics Conference II*, 129-130, (2017).
6. Bilinear restriction estimates. *AMS Fall Eastern Sectional Meeting 2012*, (2012).
7. Algebraic methods in discrete Kakeya-type problems. *Geometric and Fourier analytic questions in Euclidean space*, 76-81, (2011).

REFERENCES

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