

İLKER ARSLAN

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EDUCATION

- Postdoctoral researcher in Mathematics, Mimar Sinan University (April - August 2017)
- PhD in Mathematics, Sabanci University (Date of graduation: January 2016)
 - Advisor: Prof. Plamen Borissov Djakov
 - PhD thesis title: Characterization of the potential smoothness of one-dimensional Dirac operator subject to general boundary conditions and its Riesz basis property
- M.Sc. in Mathematics, Boğaziçi University (Date of graduation: August 2010)
 - Advisor: Prof. Betül Tanbay
 - M.S. thesis title: A study on the Kadison-Singer Problem
- B.S. in Mathematics, Boğaziçi University (Date of graduation: June 2007)

RESEARCH INTERESTS

- Spectral Theory, Operator Theory, Probability

PUBLICATIONS

- Characterization of the potential smoothness of one-dimensional Dirac operator subject to general boundary conditions and its Riesz basis property, J. Math. Anal. Appl. 447 (2017) 84-108.
- (with Ü. Işlak and C. Pehlivan) On unfair permutations <https://arxiv.org/abs/1611.07275> .

PROJECTS

- "Geometry problems on Von Neumann Algebras" under the supervision of Asst. Prof. Mohan Ravichandran.

POPULAR SCIENCE ARTICLES

- (with Ü. Işlak) Buffon'un iğne problemi ve Monte Carlo metodları üzerine, Matematik Dünyası, 2016-I

TALKS AT CONFERENCES AND ATTENDED WORKSHOPS

- Fall Western Sectional Meeting San Francisco State University, October 25-26, 2014
- Istanbul Graduate Analysis Seminars, March 8, 2013
- Functional Analysis Workshop, Mathematics Village, December 7-13, 2008.

ACADEMIC EMPLOYMENT

- **Instructor**, Department of Mathematics, Boğaziçi University, Summer 2017. *Courses*: Multivariable Calculus.
- **Instructor**, Department of Basic Sciences, Kemerburgaz University, Fall 2016. *Courses*: One variable Calculus and Mathematics (calculus) for health sciences.
- **Instructor**, Department of Mathematics, Boğaziçi University, Summer 2016. *Courses*: Multivariable Calculus.

- **Instructor**, Department of Natural and Mathematical Sciences for Engineering, Özyeğin University, Fall 2015/16. *Courses*: Mathematics for social sciences
- **Teaching Assistant**, Faculty of Engineering and Natural Sciences, Sabanci University 2011 - 2015. *Courses*: One variable and multivariable calculus, linear algebra, differential equations, probability.
- **Teaching Assistant**, Department of Mathematics, Boğaziçi University 2007 - 2010. *Courses*: One variable and multivariable calculus, linear algebra, differential equations, complex analysis, probability, introduction to functional analysis, introduction to mathematical structures.