Özlem Beyarslan

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Matematik Bölümü,
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EDUCATION

Doctor of Philosophy in Mathematics,   June 2006,
University of Illinois at Chicago.
Thesis: Random Structures over Pseudofinite Fields, Advisor: David Marker

Master of Science in Mathematics, July 1999,
Boğazici University, Istanbul, Turkey

Bachelor of Science in Mathematics, June 1997,
Boğazici University, Istanbul, Turkey.

POSITIONS

Associate Professor
Boğaziçi Üniversitesi, Matematik Bölümü, 2018-present.

Assistant Professor
Boğaziçi Üniversitesi, Matematik Bölümü, 2011-2018.

Instructor
Boğaziçi Üniversitesi, Matematik Bölümü, 2007-2011.

Post-doctoral Fellow
Université Denis-Diderot Paris 7 , 2006- 2007.

Algebraic Arithmetic Geometry Network Early Researcher
Hebrew University of Jerusalem, 2004 - 2005.

RESEARCH INTERESTS

Model theory of fields, function field arithmetic, Galois theory, graph theory.

SYNERGISTIC ACTIVITIES

Board Member
Turkish Mathematical Society,
Fall 2016-present.

Editorial Board Member
Matematik Dünyası,
Fall 2004-2014.

PUBLICATIONS AND PREPRINTS

1. *Galois Actions of Finitely Generated Groups Rarely Have Model Companions*
   (with P. Kowalski)
   Preprint, (2022)

2. *Model Theory of Galois Actions of Torsion Abelian Groups*
   (with P. Kowalski)
   Journal de l'Institut de Mathématiques de Jussieu, pp. 1 - 43 (2022)

3. *Fields with Automorphism and Valuation*
   (with D. M. Hoffmann, G. Onay, D. Pierce)
   Arch. Math. Logic 59 (2020), no. 7-8, 997–1008

4. *Model Theory of Fields with Free Operators in Positive Characteristic*
   (with D. M. Hoffmann, M. Kamensky, P. Kowalski)
   Transactions of the American Mathematical Society 372 (8), (2019) 5991-6016

5. *Model Theory of Fields with Virtually Free Group Actions*
   (with P. Kowalski)
   Proceedings of the London Mathematical Society 118 (2), 221-256

6. *Geometric Representation in the Theory of Pseudofinite Fields*
   (with Z. Chatzidakis)
   Journal of Symbolic Logic, Volume 82, Issue 3 (2017), pp. 1132-1139

7. *On Algebraic Closure in Pseudofinite Fields*
   (with E. Hrushovski)
   Journal of Symbolic Logic, Volume 77, Issue 4 (2012), pp 1057-1066

8. *Random Hyperhraphs in Pseudofinite Fields*
   Journal de l'Institut de Mathématiques de Jussieu, Volume 9, Issue 01, January 2010, pp 29-47

MASTER THESIS SUPERVISED

Feyzanur Berksoy
Question of Model Companionability: Some Positive and Negative Answers, June 2022.

Kadir Güray Güner
Definable Sets over Finite Fields, June 2013.

Cihan Pehlivan
O-minimal Structures, June 2011.

PROJECTS

TUBİTAK 1001 Project,
Cisimlere Etki Eden Grupların Sınıflandırılması, 2020-2023.

Boğaziçi Üniversitesi Bilimsel Araştırma Projeleri,
Sözde-sonlu Cisimlerin Özyapıdönüşümleri, 2014-2016.

RESEARCH VISITS

Trimester on Model Theory, Combinatorics and Valued fields
Institut Henri Poincaré, Paris, January-February 2018.

Fields with Operators Working Group
NMK, Şirince Izmir, July 2016.

Model Theory, Arithmetic Geometry and Number Theory
MSRI, Berkeley, January-February 2014.

Research in Paris
Université Paris-Sud, France June-July 2013

RECENT INVITED TALKS

Model Theory and Applications
Cetraro, Italy 2022.

Workshop on Recent Applications of Model Theory
Fields Institute, Toronto, Canada, July 2019.

Logic Seminar
University of Manchester, Manchester, UK, May 2019.

Pure and Applied Model Theory
University of Illinois at Chicago, Chicago, USA, Oct 2018.

Antalya Algebra Days
NMK, Sirince, Izmir, May 2018.

Departmental Colloquium
Galatasaray University , May 2018.

Conference Model Theory and Applications I
IHP, Paris, France March 2018.

Model Theory Conference
Banach Center, Poland , July 2017.

Logic Seminar
University of Oxford, England, June 2017.

Departmental Colloquium
Gebze Tüksek Teknoloji Enstitüsü , April 2017.

Departmental Colloquium
Boğaziçi University, Istanbul, March 2017.

ORGANIZED CONFERENCES AND SEMINARS

Special Session on Model Theory
Annual Meetinig of Association of Symbolic Logic,
University of California at Irvine, USA, March 2022.

Special Session on Model Theory
Annual Meetinig of Association of Symbolic Logic,
University of California at Irvine, USA, March 2020.

BN-Pair Conference
Boğaziçi University, Istanbul, Turkey, October 2016.

Models and Groups
IMBM, Istanbul, Turkey, 2015-2016.

Model Theory, Difference/Differential Equations and Applications
CIRM, Marseille, France, April 2015.

Summer School around Valuation Theory
Mathematics Village, Izmir, Turkey, May 2014.

Boğaziçi University Mathematics Colloquium
Istanbul, Turkey, 2014-2016.

Model Theory Algebra and Combinatorics Conference
Koç University, Turkey, August 2011.

10. Colloquiumfest on Valuation Theory
IMBM, Turkey, June 2011.

Antalya Algebra Days
Antalya, Turkey, Summer 2008.

TEACHING EXPERIENCE

List of Courses Taught at Boğaziçi University

Introduction to Mathematical Logic, Discrete Mathematics, Matrix Theory, Introduction to Mathematical Structures, Graduate Algebra I ,II, Calculus I,II, Linear Algebra, Set Theory, Group Theory, Rings Field and Galois Theory

List of Courses Taught at Nesin Mathematics Village

Introduction to Number Theory, Introduction to Graph Theory, Linear Algebra, Field Theory, Galois Theory, Valued Fields

ADMINISTRATIVE DUTIES

Social Facilities Commission
Boğaziçi University, 2016-present.

Undergraduate Education Commission
Boğaziçi University, 2016-present.