

# Özlem Beyarslan

Boğaziçi Üniversitesi  
Matematik Bölümü,  
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## EDUCATION

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**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,  
Boğaziçi University, Istanbul, Turkey

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

## POSITIONS

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**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

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

## SYNERGISTIC ACTIVITIES

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**Board Member**  
Turkish Mathematical Society,  
Fall 2016-present.

**Editorial Board Member**  
Matematik Dünyası,  
Fall 2004-2014.

## PUBLICATIONS AND PREPRINTS

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1. *Model Theory of Galois Actions of Torsion Abelian Groups*  
(with P. Kowalski)  
Journal de l'Institut de Mathématiques de Jussieu, (2022)
2. *Fields with Automorphism and Valuation*  
(with D. M. Hoffmann, G. Onay, D. Pierce )  
Arch. Math. Logic 59 (2020), no. 7-8, 997–1008
3. *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
4. *Model Theory of Fields with Virtually Free Group Actions*  
(with P. Kowalski)  
Proceedings of the London Mathematical Society 118 (2), 221-256
5. *Geometric Representation in the Theory of Pseudofinite Fields*  
(with Z. Chatzidakis)  
Journal of Symbolic Logic, Volume 82, Issue 3 (2017), pp. 1132-1139
6. *On Algebraic Closure in Pseudofinite Fields*  
(with E. Hrushovski)  
Journal of Symbolic Logic, Volume 77, Issue 4 (2012), pp 1057-1066
7. *Random Hypergraphs in Pseudofinite Fields*  
Journal de l'Institut de Mathématiques de Jussieu, Volume 9, Issue 01, January 2010, pp 29-47

## MASTER THESIS SUPERVISED

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### **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

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### **TUBİTAK 1001 Project,**

*Cisimlere Etki Eden Grupların Sınıflandırılması*, 2020-2023.

### **Boğaziçi Üniversitesi Bilimsel Araştırma Projeleri,**

*Sözde-sonlu Cisimlerin Özyapı dönüşümleri*, 2014-2016.

## RESEARCH VISITS

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### **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

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### **Model Theory and Applicationsf**

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, Şirince, 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.

### **Model Theory Day**

IMBM , Istanbul, April 2016.

### **Caucasian Mathematics Conference, Special Session on Model Theory**

Tbilisi , Georgia, September 2014.

### **Departmental Colloquium**

Mimar Sinan GSU , Turkey, April 2013.

### **Logic Seminar**

University of Oxford, England, June 2012.

## ORGANIZED CONFERENCES AND SEMINARS

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### Special Session on Model Theory

**Annual Meeting of Association of Symbolic Logic,**  
University of California at Irvine, USA, March 2022.

### Special Session on Model Theory

**Annual Meeting 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.

### Research Seminars for Students

Boğaziçi University, 2008-2011.

### Antalya Algebra Days

Antalya, Turkey, Summer 2008.

## TEACHING EXPERIENCE

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### 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

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### Social Facilities Commission

*Boğaziçi University, 2016-present.*

**Undergraduate Education Commission**  
*Boğaziçi University, 2016-present.*