

# CV OF AYHAN GÜNAYDIN

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## CURRENT POSITION

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**Postdoctoral Fellow, FCT**  
Universidade de Lisboa, CMAF, Lisbon

## FORMER POSITIONS

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**Visiting Scholar**, January 2009 – July 2009  
Fields Institute, Toronto, Canada.

**Marie Curie Postdoc**, January 2008 – January 2009  
University of Oxford, UK.

## TEACHING EXPERIENCE

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**Calculus I, II; including “Calculus&Mathematica” Sections** - University of Illinois at Urbana-Champaign

**Introduction to Matrix Theory** - University of Illinois at Urbana-Champaign

## TEACHING AWARDS

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**Incomplete List of Teachers Rated as Excellent** - University of Illinois at Urbana-Champaign, Fall 2005

## EDUCATION

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**Ph.D. in Mathematics**, October 2008  
University of Illinois at Urbana-Champaign  
Dissertation title: *Model theory of fields with multiplicative subgroups*  
Advisor: Lou van den Dries

**B.Sc in Mathematics**, 2001  
Istanbul Bilgi University, Mathematics, Istanbul, Turkey

## ADMINISTRATIVE

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**Organizer** - Workshop ‘A Variety of Model Theory in Lisbon’, October 19-20, 2011. For more information: <http://ptmat.fc.ul.pt/ayhan/workshop/home.html>

## RECENT TALKS AND SEMINARS

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### 2011

- Algebra Seminar at Instituto Superior Técnico, Lisboa, May 2011
- Oberseminar at Albert-Ludwigs-Universitaet Freiburg, Mathematisches Institut, Frieberg, Germany, June, 2011
- Invited talk at the Model Theory Special Session at Logic Colloquium 2011, August 2011
- A week-long mini-course on Algebraic Geometry at the Nesin Mathematics Village, Izmir, Turkey

### 2010

- Contributed talk at the ‘Algebraic Dynamics Conference 2010’, at Graduate Center of CUNY, June, 2010
- Séminaire Logique Mathématique, Lyon, May, 2010
- Coloquio de Matemáticas, Univesidad de Los Andes, Bogotá, Colombia, February 2010.

- Seminario de Teoría de Modelos, Universidad Nacional de Colombia, Bogotá, Colombia February 2010
- Several talks in Logic Seminars and Model Theory Seminars at Universidade de Lisboa and Universidade de Técnica de Lisboa, 2009-2010

#### 2009

- Urbana in Lyon, Lyon, France, July 2009
- Tarde de Lógica / Afternoon in Logic, Lisboa, Portugal, 2009
- Geometry and Model Theory Seminar at the Fields Institute, Toronto, Canada, May 20

#### 2008

- Antalya Algebra Days, May 2008
- Seminar at Bilgi University, Istanbul, May 2008
- Several talks in Logic Seminars at the University of Oxford, 2008

#### 2007

- Annual Meeting of The Association for Symbolic Logic, Gainesville, Florida, March 2007

#### 2006

- Mathematics Colloquium, Bilgi University, Istanbul, Turkey, November 2006
- MODNET Antalya Conference, Antalya, Turkey, November 2006
- Model Theory Seminar at McMaster University, Hamilton, Ontario, Canada, February 2006

#### 2005

- Midwest Model Theory Meeting, Columbus, Ohio, October 2005 • Model Theory Seminar at University of Illinois at Chicago, March 2005

### PUBLICATIONS

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#### Published:

- Fields of real and complex numbers with a small multiplicative group (with L. van den Dries), *Proceedings of London Mathematical Society*, **93**, (2006), pp. 43–81.
- Thorn independence in the field of real numbers with a small multiplicative group (with A. Berenstein and C. Ealy), *Annals of Pure and Applied Logic*, **150**, (2007), pp. 1–18.
- Mann Pairs (with L. van den Dries), *Trans. Amer. Math. Soc.*, **362**, (2010), 2393-2414.
- Definable sets in Mann pairs (with L. van den Dries), *Communications in Algebra*, **39** (2011), pp. 2752–2763.
- Dependent pairs (with P. Hieronymi), *Journal of Symbolic Logic*, **76**, (2011), pp. 377-390.
- The real field with the rational points of an elliptic curve (with P. Hieronymi), *Fundamenta Mathematicae*, **211**, (2011), pp. 15–40.

#### Preprints:

- Rational solutions of polynomial-exponential equations, available at my homepage.
- Generic points on exponential curves (with A. Martin-Pizarro).
- The real field with two multiplicative subgroups, available at my homepage.
- The field of real numbers with a small subgroup of the circle group, available at my homepage.