

## Yuri F. Bilu' Curriculum Vitae

December 26, 2018

Born on August 29, 1964 in Minsk, of French and Israeli citizenship.

### Education

**Habilitation** University of Basel, 2000  
**Ph. D.** Ben-Gurion University of the Negev, Beer-Sheva, Israel, 1994  
**B. Sc. & M. Sc.** Byelorussian State University, Minsk, 1986

### Employment History

Since 2000 Professor of Mathematics, Université de Bordeaux  
1998 – 2000 Assistant (Privat-Dozent since June 2000), Universität Basel  
1996 – 1997 Researcher, Forschungsinstitut für Mathematik, ETH Zürich  
1995 – 1996 Researcher, Max-Planck-Institut für Mathematik, Bonn  
1994 – 1995 Researcher, Universität Göttingen  
1993 – 1994 Researcher, Université Bordeaux 2  
1990 – 1993 Assistant, Ben-Gurion University,  
1986 – 1990 Programmer, "Belgosproject", Minsk

### Short Visits

I was long-term (one month or longer) visiting professor or researcher in the following institutions:

MPIM, Bonn	Universität Basel	Wits University
ESI, Vienna	Byelorussian State University	IMSc, Chennai
Stellenbosch University	CRM Montréal	Xiamen University
UNAM, Morelia	TU Graz	University of Valparaiso
Hausdorff Institute, Bonn	Chennai Mathematical Institute	Humboldt Universität
SNS Pisa	Università di Pisa	IMPA, Rio de Janeiro
FIM, ETH Zürich	Karl-Franzens-Universität, Graz	Macquarie University
Fields Institute, Toronto	Universität Bielefeld	

I was invited speaker on about 75 conferences, and gave about more than 20 mini-courses at various institutions or instructional schools throughout the world.

### Conference and other activities organizer

- Co-organizer of the conference "Explicit Number Theory", Valparaiso, January 2019
- Co-organizer of the CIMPA School "Explicit Number Theory" (Johannesburg, January 2018)
- Co-organizer of the international conference "Journées Algophantiennes Bordelaises" (Bordeaux, June 2017)
- Co-organizer of the international conference "Thue 150" (Bordeaux, October 2013)
- Co-organizer of the "Diophantine Geometry" trimester at the Centro De Giorgi (April-July 2005)

### Grants, collaboration projects

- The French coordinator of the joint French-Chilean **Ecos Sud program** "Explicit Arithmetic Geometry", 2018-2020.
- The French coordinator of the **International Research Network GandA** France-Denmark-South Africa-Madagascar, (2017-2021)
- Coordinator of the **ANR project "HAMOT"** (2011-15)
- Local coordinator for the Erasmus Mundus **ALGANT** program (2007-2013)

### Editorial duties

- Member of the Scientific Council of the *Journal de Théorie des Nombres de Bordeaux* (since 2005)
- Managing editor of the *Internatiuonal Journal of Number Theory* since 2018 (editor since 2009)
- Editor of the *Research in Number Theory* (since 2018)

### Other duties

- Coordinator of the “Problèmes Diophantiens” group at the *Institut de Mathématiques de Bordeaux* (2007-2013 and since 2014)
- Research Master Coordinator at the Mathematics Department of the University of Bordeaux (2007-2014)

### Advisorship

I supervised 9 PhD students who successfully defended their theses. Currently I have 2 more PhD students. I also supervised a number of master theses.

### Selected publications

I am author of **one book and 60 research articles**. The full list of my publications is available here: [https://www.math.u-bordeaux.fr/~ybilu/bilu\\_publ.pdf](https://www.math.u-bordeaux.fr/~ybilu/bilu_publ.pdf)

Here is a selection of my most important publications

1. **Yu. Bilu, Y. Bugeaud, M. Mignotte**, The Problem of Catalan, Springer, 2014.
2. **Yu. Bilu, P. Habegger, L. Kühne**, Effective bounds for singular units, *Int. Math. Research Notices*, to appear; arXiv:1805.07167
3. **Yu. Bilu, L. Kühne**, Linear Equations in Singular Moduli, *Int. Math. Research Notices*, to appear; arXiv:1712.04027
4. **Yu. Bilu, J.-M. Deshouillers, S. Gun, F. Luca**, Random ordering in modulus of consecutive Hecke eigenvalues of primitive forms, *Compositio Math.* **154** (2018), 2441-2461.
5. **Yu. Bilu, F. Luca**, Diversity in Parametric Families of Number Fields, in: C. Elsholtz, P. Grabner (eds), *Number Theory - Diophantine Problems, Uniform Distribution and Applications: Festschrift in Honour of Robert F. Tichy's 60th Birthday*, 169-191, Springer, 2017.
6. **B. Allombert, Yu. Bilu, A. Pizarro-Madariaga**, CM-Points on Straight Lines, in: C. Pomerance, M. Rassias (eds.), *Analytic Number Theory In Honor of Helmut Maier's 60th Birthday*, 1-18, Springer, 2015.
7. **Yu. Bilu, P. Parent, M. Rebolledo**, Rational points on  $X_0^+(p^r)$ , *Ann. Inst. Fourier* **63** (2013), 957-984.
8. **Yu. Bilu, P. Parent**, Serre's Uniformity Problem in the Split Cartan Case, *Ann. Math. (2)* **173** (2011), 569-584.
9. **Yu.F. Bilu**, The Many Faces of the Subspace Theorem (after Adamczewski, Bugeaud, Corvaja, Zannier...), Séminaire Bourbaki, Exposé 967, 59ème année (2006-2007); *Astérisque* **317** (2008), 1-38.
10. **Yu.F. Bilu, F. Luca**, Divisibility of class numbers: enumerative approach, *J. reine angew. Math.* **578** (2005), 79-91.
11. **Yu.F. Bilu**, Catalan's conjecture (after Mihăilescu), Séminaire Bourbaki, Exposé 909, 55ème année (2002-2003); *Astérisque* **294** (2004), 1-26.
12. **Yu. Bilu**, Baker's method and modular curves, *A Panorama of Number Theory or The View from Baker's Garden* (edited by G. Wüstholz), Cambridge University Press 2002; pp. 73-88.
13. **Yu. Bilu, G. Hanrot, P. Voutier** (with an appendix by **M. Mignotte**), Existence of primitive divisors of Lucas and Lehmer numbers, *J. reine angew. Math.* **539** (2001), 75-122.
14. **Yu.F. Bilu, R.F. Tichy**, The Diophantine equation  $f(x) = g(y)$ , *Acta Arith.* **95** (2000), 261-288.
15. **Yu. Bilu, Y. Bugeaud**, Démonstration du théorème de Baker-Feldman via les formes linéaires en deux logarithmes, *J. Th. Nombres Bordeaux* **12** (2000), 13-23.
16. **Yu. Bilu**, Structure of sets with small sumsets, *Astérisque* **258** (1999), 77-108.
17. **Yu. Bilu**, Limit distribution of small points on algebraic tori, *Duke Math. J.* **89** (1997), 465-476.
18. **Yu. Bilu, G. Hanrot**, Solving Thue equations of high degree, *J. Number Th.* **60** (1996), 373-392.