

Yiannis Sakellaridis

CURRICULUM VITAE

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Citizenship: Greek
Date of Birth: 14 September 1978

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Current and past employment:

- 2008 – 2010 Post-doctoral fellow, University of Toronto.
Faculty mentors: Henry Kim, Fiona Murnaghan, Joe Repka.
- 2006 – 2008 Post-doctoral fellow, Tel Aviv University (Oct. 2006 – Mar. 2007: under the European “Marie Curie” Network on Arithmetic Algebraic Geometry).
Supervisor: Joseph Bernstein.

Higher Education:

- 2001 – 2006 Stanford University, Ph.D. in Mathematics.
Dissertation title: *Unramified representations of p -adic groups on spherical varieties*.
Thesis advisor: Daniel Bump.
Autumn semester 2004: visiting Courant Institute, NYU.
- 1996 – 2001 National Technical University of Athens (NTUA), Diploma in Electrical and Computer Engineering.
Diploma thesis: *Applications of ergodic theory to combinatorial number theory*.
Thesis supervisor: Spiros Argyros.

Research interests:

Automorphic forms, number theory, representation theory. I am particularly interested in the aspects of automorphic forms and representations of p -adic groups which involve spherical subgroups: distinguished representations, period integrals, integral representations of L -functions, the relative trace formula.

Research articles:

- 1) *A Casselman-Shalika formula for the Shalika model of GL_n* . Canadian Journal of Mathematics, 58 (2006), no. 5, 1095–1120.
- 2) *On the unramified spectrum of spherical varieties over p -adic fields*. Compositio Mathematica 144 (2008), no. 4, 978–1016.
- 3) *Spherical functions on spherical varieties*. Submitted, 70pp, arXiv:0905.4244.
- 4) *Spherical varieties and integral representations of L -functions*. Preprint, 52pp, arXiv:0905.4245.
- 5) *Periods and harmonic analysis on spherical varieties*. With Akshay Venkatesh, in preparation.

Invited talks:

December 2009	CMS Winter Meeting.
November 2009	University of Minnesota Lie Theory Seminar.
September 2009	BC–MIT Joint Number Theory Seminar.
August 2009	AIM Workshop: “Relative trace formula and periods of automorphic forms”.
July 2009	University of Bonn, Arbeitsgemeinschaft Arithmetische Geometrie.
April 2009	Brown Algebra Seminar.
March 2009	UI Chicago Number Theory Seminar.
March 2009	Joint Princeton – IAS Number Theory Seminar.
February 2009	UC San Diego Representation Theory Seminar.
February 2009	Stanford Number Theory Seminar.
November 2008	Oberwolfach Mini-Workshop: “Symmetric Varieties and Involutions”.
February 2008	Joint Columbia – Cuny – NYU number theory seminar.
January 2008	Israel Automorphic Forms Seminar.
July 2007	Hausdorff Center for Mathematics, Bonn.
May 2007	University of Athens.
May 2007	Ben Gurion University, Beer-Sheva.
February 2007	Research Institute for Mathematical Sciences, Kyoto.
November 2006	Weizmann Institute.
September 2006	National Technical University of Athens.
September 2006	El Escorial, Madrid, International Conference on Arithmetic Algebraic Geometry.
February 2006	University of Michigan Arithmetic Seminar.
January 2006	Stanford Representation Theory Seminar.
October 2005	UC Irvine Number Theory Seminar.
May 2005	Stanford Representation Theory Seminar.

Awards and distinctions:

At NTUA	Scholar of the “Greek Institution for State Grants” (1996-1998); scholar of the “Bodosakis Foundation” (1996-2000); highest entry score among all science candidates in Greece; “Polytechnio Prize” (for highest entry score in the EE department); “N. Kritikos Grant” (best of department in 1st year math); “C. Papakyriakopoylos Prize” (best of department in 2nd year math); “G. Giafetas Prize” (best of NTUA in Probability & Statistics).
Math contests	First place, panhellenic competition “Thales”, 1992, 1993 & 1995; Bronze medal, panhellenic olympiad “Archimedes” 1996; Gold medal, panhellenic competition in Probability, 1996.

Teaching experience:

2009 – 2010	Instructor and coordinator, Multivariable calculus, University of Toronto.
2008 – 2009	Instructor, Multivariable calculus, University of Toronto.
2007 – 2008	Instructor, Graduate course on Automorphic Representations, Tel Aviv University.
2002 – 2006	Teaching assistant for various undergraduate and first-year graduate courses, Stanford University.

Other activities:

- 2007 – 2008 Co-organizer (with Z. Rudnick), Tel Aviv University Number Theory Seminar.
- 2003 – 2009 Co-organizer of various informal learning seminars at Stanford, the Weizmann Institute and Toronto, every single academic year.

Conferences, workshops and schools attended:

- August 2009 AIM Workshop: “Relative trace formula and periods of automorphic forms”.
- November 2008 Oberwolfach Mini-Workshop: “Symmetric Varieties and Involutions”.
- February 2007 La Habana, X International Mathematics Workshop.
- September 2006 El Escorial, Madrid, International Conference on Arithmetic Algebraic Geometry.
- June 2006 CIRM Luminy, Conference on the Langlands Program.
- December 2005 CRM Montréal, Intersection of arithmetic cycles and automorphic forms.
- July 2005 Bretton Woods, Workshop on multiple Dirichlet series.
- June 2005 Tel Aviv University, Representation theory, geometry and automorphic forms, in honour of Joseph Bernstein’s 60th birthday.
- June 2005 Institute for Advanced Studies, Jerusalem, Conference on the geometric Langlands correspondence.
- October 2004 Fields Institute, Toronto, Conference on automorphic forms and the trace formula, in honour of James Arthur on the occasion of his 60th birthday.
- March 2004 Newton Institute, Cambridge, School on recent perspectives in random matrix theory and number theory.
- May 2004 Univ. Ottawa, Fields Institute workshop on the representation theory of p-adic groups.
- June 2003 Fields Institute, Toronto, CMI summer school on harmonic analysis, the trace formula and Shimura varieties.
- January 2003 UCSD, Spectral analysis in geometry and physics.
- March 2002 MIT, Geometric analysis: a conference in honor of Richard Melrose.

Languages: Greek (native), English, German (very good), Spanish (good), Hebrew (poor), French (just enough to read math).

References: Joseph Bernstein, School of Mathematical Sciences, Tel Aviv University, Ramat Aviv, Tel Aviv 69978, Israel.

Daniel Bump, Department of Mathematics, Stanford University, Building 380, Stanford, California 94305, USA.

Erez Lapid, Einstein Institute of Mathematics, Hebrew University of Jerusalem (Givat Ram campus), Jerusalem 91904, Israel.

Akshay Venkatesh, Department of Mathematics, Stanford University, Building 380, Stanford, California 94305, USA.