

CURRICULUM VITAE

SHAMGAR GUREVICH

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Research Interests

- Representation theory.
- Geometric representation theory.
- Applications to harmonic analysis, signal processing, mathematical physics.
- Applications to three-dimensional structuring of molecules.

Employment

2009–2010: Institute for Advanced Study, Princeton, USA. Member.

2006–2009: University of California, Berkeley, USA. Morrey Assistant Professor (Hosts: Prof. M. Rieffel and Prof. A. Weinstein).

2005–2006: Technion, Israel institute of technology, Haifa, Israel. Post-Doc.

Education

1998–2005: Ph.D., Pure mathematics. Supervisor: Prof. Joseph Bernstein. Title of Ph.D. dissertation: "Weil representation, Deligne's sheaf, and proof of the Kurlberg-Rudnick conjecture". Tel Aviv University, Israel (summa cum laude).

2001–2002: Ph.D., Associated student. Programs: Integral Geometry, Mathematical physics, Modular forms and Stacks. MSRI, Berkeley, USA.

2001–2002: Ph.D., Associated student. Department of Mathematics, UC Berkeley, USA.

1994–1998: B.A., Pure mathematics. Haifa University, Israel (summa cum laude).

Publications

See the Publications list file available at <http://math.berkeley.edu/~shamgar/>

Teaching Experience

2006–2009: Lecturer. University of California, Berkeley, California, USA.

1998–2004: Lecturer and Teaching Assistant. Tel Aviv University, Israel.

2000: Lecturer. The division of mathematics for gifted students. Tel-Aviv University, Israel.

1997–1998: Teaching Assistant. Haifa University, Israel.

1999–2000: Lecturer. The Open University, Israel.

Awards

2009–2011: The Newton International Fellowship of the British Academy, the Royal Academy of Engineering and the Royal Society (Declined).

2002–2005: Emmy Noether Fellow. The Emmy Noether Mathematical Institute, Bar-Ilan University, Israel.

1998–2005: Scholarship for Ph.D., Tel-Aviv University, Israel.

2003: Visitor grant, the European Commission under the Research Training Network (Mathematical Aspects of Quantum Chaos).

2002: Visitor grant, the European Commission under the Research Training Network (Mathematical Aspects of Quantum Chaos).

1997: The Ron Adler Prize for distinguished B.A. students, Haifa University, Israel.

1996–1997–1998: Distinguished B.A. student prize, Haifa University, Israel.

Visiting Positions

2009: The Institute of Mathematics Jussieu, Paris, France.

2009: University of Cambridge, UK.

2009: Max Planck Institute, Bonn, Germany.

2008: Max Planck Institute, Bonn, Germany.

2008: Weizmann Institute of Science, Rehovot, Israel.

2007: University of Münster, Germany.

2007: Weizmann Institute of Science, Rehovot, Israel.

2007: University of Chicago, USA.

2006: IHES, Bures sur Yvette, France.

2005: Max Planck Institute, Bonn, Germany.

2004: Courant Institute, NYU, NY, USA.

2004: Max Planck Institute and Bonn University, Bonn, Germany.

2003: Chalmers University, Gothenburg, Sweden.

2003: IHES, Bures sur Yvette, France.

2003: University of Chicago, USA.

2003: Fields Institute, Toronto, Canada.

2002: IHES, Bures sur Yvette, France.

2001: MSRI, Berkeley, USA.

1997: Summer research student, Weizmann Institute, Israel.

Lectures

I have given lectures at the following institutions:

- University of Copenhagen, Denmark.
- Ben-Gurion University, Beer Sheva, Israel.
- Hebrew University, Jerusalem, Israel
- Technion - Department of mathematics, Haifa, Israel.
- Haifa University, Haifa, Israel.

- Fields Institute, Toronto, Canada.
- Chalmers University, Gothenburg, Sweden.
- Tel-Aviv University, Tel-Aviv, Israel.
- The University of Bonn, Germany.
- Max-Planck Institute Bonn, Germany.
- Yale University, New Haven, Connecticut, USA.
- Ohio state University, Columbus, Ohio, USA.
- Weizmann Institute, Rehovot, Israel.
- Bar-Ilan University, Ramat-Gan, Israel.
- Bielefeld University, Bielefeld, Germany.
- The 2nd International Conference on p-Adic Mathematical Physics, Belgrade, Serbia.
- Harvard University, Cambridge, USA.
- University of California, Berkeley, USA.
- Stanford University, Palo Alto, California, USA.
- EMS Summer School - Arithmetic and Geometry Around Quantization - 2006, Istanbul, Turkey.
- The Sixth Workshop on Lie Theory and Geometry - Cordoba 2007, Argentina.
- University of California, Riverside, USA.
- MSRI, Berkeley, USA.
- TU Berlin, Germany.
- UCLA, Los Angeles, USA.
- Princeton University, Princeton, New Jersey, USA.
- IAS, Princeton, New Jersey, USA.
- MIT, Cambridge, USA.
- SETA2008 - International conference on Sequences and Their Applications 2008 - University of Kentucky, Lexington, USA.
- University of California, Davis, USA.
- Caltech, Pasadena, California, USA.

Workshops and Conferences

- 2008:** SETA2008, International Conference on Sequences and Their Applications, Sep., University of Kentucky, Lexington, USA.
- 2008:** Eusipco2008, 16th European Signal Processing Conference, Aug., Lausanne, Switzerland.
- 2008:** Codes, Invariants and Modular Forms, July, MPI Bonn, Germany.
- 2007:** The Sixth Workshop on Lie Theory and Geometry, Cordoba, Argentina.
- 2006:** Hassip06, Harmonic Analysis and Signal Processing, Munich, Germany.
- 2005:** The 2nd International Conference on p-Adic Mathematical Physics, Belgrade, Serbia and Montenegro.
- 2005:** Summer school on Equidistribution in Number Theory, Montreal University, Canada.
- 2005:** Conference on Number Theory, Random Matrix Theory and Quantum Chaos, Bielefeld University, Germany.

2004: Isaac Newton Institute, Workshop on Random Matrix Theory and Arithmetic Aspects of Quantum Chaos, Cambridge University, England.

2003: Clay Mathematics Institute Summer School on Harmonic Analysis, The Trace Formula and Shimura Varieties, June, The Fields Institute, Toronto, Canada.

2002: IAS/PCMI Summer Session, Automorphic forms, Park City, Utah, USA.

2002: School on representation theory of p-adic reductive groups, Münster, Germany.

2001: Summer School on Mathematical Aspects of Quantum Chaos, Bologna, Italy.

2001: School on Automorphic forms. The Hebrew University, Jerusalem, Israel.

Organization of Workshops and Conferences

2010: Organizer of the "AMS Special Session on Algebraic Methods in Signal Processing" at the Joint Mathematics Meetings, San Francisco, CA, January 13-16, 2010.

Sports

Before working in the field of mathematics I was a professional sailor.

- I was a member of the Israeli national sailing team and represented Israel in numerous competitions, including European and world championships.
- Winner of several Israeli championships.
- Winner of the Kieler Woche in Kiel, Germany - one of the biggest sailing events in the world.
- Winner of the 420 Trophy, Rimini, Italy.
- Bronze medal in the 420 world championship, Rimini, Italy.
- I was a coach for many young Israeli sailors.

Date: November 1, 2009.