

# RESUME<sup>1</sup>

**Full name:** Omer Offen

**Date and place of birth:** May 26th, 1970, Israel

**Web site:** <http://www.technion.ac.il/~offen>

## **Academic degrees.**

- Ph. D., Mathematics, 2002, Columbia University.
- M. A., Mathematics, 1998, Columbia University.
- B. Sc., Mathematics, 1996, Tel Aviv University (*summa cum laude*).

## **Academic appointments.**

- **Senior Lecturer**-Technion, Mathematics department. 2008–Tenure track position
- **Minerva Fellow**-Humboldt-Universität zu Berlin, Institut für Mathematik 2006–2008
- **Postdoctoral Fellow**-Weizmann Institute, Department of Mathematics. 2004–2006
- **Member**-Max-Planck-Institut für Mathematik. 2003–2004
- **William Hodge Fellow**-Institut des Hautes Études Scientifiques. 2002–2003
- **Instructor / Teaching Assistant**-Columbia University, Department of Mathematics. 1997–2002

**Research interests:** Automorphic Forms, Representation Theory, Trace Formula.

**Membership in Professional societies.** AMS, IMU

## **Honors.**

- 2006–2008: Minerva Fellowship.
- 2004–2006: Edith and Edward F. Anixter Postdoctoral Fellowship, Weizmann Institute.
- 2002–2003: William Hodge Fellowship, IHÉS.
- 1997–2002: Department of Mathematics Fellowship, Columbia U.

## **Research grants.**

- 2009–2012: GIF, 192,100 Euro (principal investigator with Erez Lapid, Werner Müller and Tobias Finnis).
- 2008–2011: ISF Grant No. 88/08, 354,000 NIS (principal investigator).

---

<sup>1</sup>last updated Oct. 10, 2010

### Publications.

- (1) Unitary Periods and Jacquet’s relative trace formula. Automorphic forms and L-functions, Global Aspects *Contemporary Mathematics* 488, 183–236 AMS, 2009.
- (2) The  $SL(2)$ -type and base change. *Representation Theory* 13: 228–235, 2009.
- (3) Global mixed periods and local Klyachko models for the general linear group. *International Mathematics Research Notices*. IMRN, (1):Art. ID rnm 136, 25, 2008 (joint with: Eitan Sayag).
- (4) Uniqueness and disjointness of Klyachko models. *Journal of Functional Analysis*, 254(11):2846–2865, 2008 (joint with: Eitan Sayag).
- (5) Unitary periods, Hermitian forms and points on flag varieties. *Mathematische Annalen*, 339(4):891–913, 2007 (joint with: Gautam Chinta).
- (6) Compact unitary periods. *Compositio Mathematica*, 143(2):323–338, 2007 (joint with: Erez Lapid).
- (7) Stable relative Bessel distributions on  $GL(n)$  over a quadratic extension. *American Journal of Mathematics*, 129(5):1183–1226, 2007.
- (8) On unitary representations of  $GL_{2n}$  distinguished by the symplectic group. *Journal of Number Theory*, 125(2):344–355, 2007 (joint with: Eitan Sayag).
- (9) On symplectic periods of the discrete spectrum of  $GL_{2n}$ . *Israel Journal of Mathematics*, 154:253–298, 2006.
- (10) A remark on the fundamental lemma of Jacquet. *Comptes Rendus Mathématique. Académie des Sciences. Paris*, 342(10):733–736, 2006.
- (11) Residual spectrum of  $GL_{2n}$  distinguished by the symplectic group. *Duke Mathematical Journal*, 134(2):313–357, 2006.
- (12) Kloosterman-Fourier inversion for symmetric matrices. *Bulletin de la Société Mathématique de France*, 133(3):331–348, 2005.
- (13) (a) Relative spherical functions on  $\wp$ -adic symmetric spaces (three cases). *Pacific Journal of Mathematics*, 215(1):97–149, 2004.  
 (b) Correction to the article “Relative spherical functions on  $\wp$ -adic symmetric spaces (three cases)” [Pacific J. Math. 215(2004), no. 1, 97–149]. *Pacific Journal of Mathematics*, 236(1):195–200, 2008.

### Accepted papers.

- (1) Orthogonal Period of a  $GL_3(\mathbb{Z})$  Eisenstein Series. To appear in “Representation theory, complex analysis and integral geometry”. (joint with: Gautam Chinta)
- (2) On local root numbers and distinction. To appear in *Crelle*.

**Thesis.** Relative Spherical Functions on  $p$ -adic Symmetric Spaces (Three Cases).

**Thesis Advisor:** Hervé Jacquet.

**Short term visits.**

- October 2008 – Université de la Méditerranée.
- March, May 2004 – Hebrew University, Jerusalem. Visiting Scholar.

**Invited Conference talks.**

- Aug 2010, International Center in Dona Paula, Goa, India, Automorphic Forms and Number Theory
- June 2010, Porquerolles, Representations of p-adic groups.
- June 2010, BIRS, Whittaker Functions, Crystal Bases, and Quantum Groups.
- Aug 2009, AIM, Relative trace formula and periods of automorphic forms.
- June 2009, Stanford University, Fourth Workshop on Multiple Dirichlet Series.
- Aug 2008, ICMS, Multiple Dirichlet Series and Applications to Automorphic Forms.
- Nov. 2007, Hakuba-Japan, The 10th Autumn Workshop on Number Theory.
- June 2006, Columbia University, Automorphic Galois representations, L-functions and Arithmetic.
- Dec. 2005, Technion-Haifa, Applications of Representation Theory to Analytic Number Theory.

**Upcoming conferences.**

- Nov 2010, Oberwolfach, Automorphic Forms: New Directions
- Nov 2010, Oberwolfach, Representation Theory and Harmonic Analysis

**Upcoming Lecture Series.**

- Oct 2011, Beijing, Morningside Center of Mathematics, Chinese Academy of Sciences

**special professional activities.** HIM coordinator at the special Trimester Program: Representation Theory, Complex Analysis and Integral Geometry. HIM, joint with the MPIM June - August, 2007.