

Yuval Z. FLICKER

BIOGRAPHICAL SKETCH, Feb. 2015

I. Personal Data

Birth: Jan. 3, 1955, Kfar Saba

Married, four children

Citizenship: USA, Israel.

1. Appointments, Education

The Ohio State University, Professor 1987-2015

Harvard University, Visiting Faculty 1985-1987

Princeton University, Assistant Professor 1981-1985

Université de Paris VII and IHES, Visit ur 1981

Columbia University, Assistant Professor 1979-1981

Institute for Advanced Study, Member 1978-1979

Ph.D.: Cambridge University, UK, Supervisor: Alan Baker 1974-1978

Thesis Title: Linear forms on abelian varieties over local fields

M.A: Hebrew University, Math 1973-1974

B.A.: Tel-Aviv University, Math & Philosophy 1971-1973

2. Research Interests

Number Theory, Representation Theory, Arithmetic Geometry. Automorphic and Admissible Representations, Lifting of Representations, Covering Groups, Shimura Varieties, Automorphic forms over function fields, Hecke-Iwahori algebras, p -adic automorphic forms, Galois Cohomology, Local-Global Principles, Motives, Algebraic Groups.

3. Longer Visits

Humboldt Universit t, Berlin; Humboldt Stiftung July 2014

University of Amsterdam April 2014

Tata Institute, Mumbai (India; ICERM Grant) Jan.-Feb. 2014

Hebrew University, Jerusalem; Schonbrunn Visiting Professorship October 2013-May 2014

University of Tokyo, visiting Professorship September 2013

Simons Fellowship in Mathematics #267097 2013-2014

University of Erzinca, Turkey; TUBITAK Fellowship June-August 2013

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| Hebrew University, Jerusalem | December 2012 |
| Weizmann Institute, Rehovot | August 2012 |
| University of Erzincan, Turkey; TUBITAK Fellowship | May-August 2012 |
| University of Bielefeld (Germany) | December 2011 |
| Humboldt Universität, Berlin; Humboldt Stiftung | June-Sept 2011 |
| IAS, Princeton | March 20-25, 2011 |
| Hebrew University (Jerusalem) | Jan.-March 2011 |
| University of Bielefeld (Germany) | December 2010 |
| University of Buenos Aires, Fulbright | June-August 2010 |
| University of Bielefeld (Germany) | December 2009 |
| University of Bielefeld (Germany) | July-August 2009 |
| Max-Planck-Institut für Math, Bonn | June-July 2009 |
| Hausdorff Institute of Math, Bonn | March-April 2009 |
| Tel-Aviv, Bar-Ilan, Ben-Gurion Universities | December 2008 |
| Max-Planck-Institut für Math, Bonn | Sept 2008 |
| Humboldt Universität, Berlin | August 2008 |
| IHES, Paris | June-July 2008 |
| Tel-Aviv University | May 2008 |
| Max-Planck-Institut für Math, Bonn | July-Sept 2007 |
| Universität zu Köln, Humboldt Stiftung | June 2007 |
| Universität Essen, Humboldt Stiftung; MPIM-Bonn | June-Sept 2006 |
| Universität zu Köln, Humboldt Stiftung | June-August 2005 |
| Max-Planck-Institut für Math, Bonn | July-Sept 2004 |
| Hebrew University, Lady Davis visiting Professorship | Jan.-March 2004 |
| Max-Planck-Institut für Math, Bonn | June-Sept 2003 |
| Chinese Academy of Science, Beijing | Summer 2002 |
| Humboldt Universität, Berlin | June 2001 |
| University of Bielefeld, Sonderforschungsbereich 343 | June-August 2000 |
| National University of Singapore, Senior Fellowship | June-Dec. 1999 |
| University of Bielefeld, Nato Collaborative Grant | August 1998 |
| University of Münster, DAAD Scholarship | June-July 1998 |
| University of Mannheim, Humboldt Stiftung | Summer 1997 |
| Tata Institute, Mumbai; Tel-Aviv University, | Winter 1996 |
| University of Mannheim, Humboldt Stiftung | Summer 1996 |
| Tata Institute, Mumbai; Tel-Aviv University, | Winter 1995 |
| University of Mannheim, Humboldt Stiftung | Summer 1995 |
| University of Tokyo, visiting Professorship | Spring 1995 |
| University of Mannheim, DAAD Scholarship | Summer 1994 |
| University of Santiago, Chile, NSF Grant-Americas Program | Winter 1994 |
| Tel Aviv University | Fall 1993 |
| Tata Institute, NSF Grant INT; Santa Barbara | Summer 1992 |
| IAS at Hebrew University; Tel Aviv University | Winter 1992 |
| Tata Institute, Bombay, NSF Grant INT | Winter 1991 |

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| Kyoto ICM, AMS Grant | Summer 1990 |
| Hebrew University, Jerusalem | Autumn 1989 |
| IHES, Paris | Summer 1988 |
| IHES, Paris | Summer 1987 |
| MSRI, Berkeley | Summer 1986 |
| Bar-Ilan and Tel-Aviv Universities | Summer 1985 |
| Hebrew University, Jerusalem | Summer 1983 |
| IHES, Paris | Summer 1982 |
| IHES, Paris | Summer 1981 |
| Université de Paris VII | Summer 1980 |

II. Contribution to Teaching at the Ohio State University

1. Graduate Students

Michael Belfanti, current

Martin Nikolov: Thesis: May 2008. First Post-Doc position: University of Connecticut.

Ping-Shun Chan: Thesis: December 2005. First Post-Doc position: MPIM-Bonn.
Second Post-Doc position: University of California San-Diego.

Dmitrii Zinoviev: Researcher at the Institute of Problems in Information Transmission, Academy of Science, Moscow.

Jennifer Orlich, Master thesis: Spectral Sequences.

2. Undergraduate (including regular teaching assignments)

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| Spring Semester 2015: | Math 2568 | Linear Algebra |
| Autumn Semester 2014: | Math 4580 | Abstract Algebra |
| Autumn Semester 2012: | Math 4580 | Abstract Algebra |
| Winter Quarter 2012: | Math 581 | Ring theory |
| Autumn Quarter 2011: | Math 507 | Hyperbolic geometry |
| Autumn Quarter 2011: | Math 582 | Fields and Galois theory |
| Spring Quarter 2011: | Math 132 (2) | Calculus |
| Autumn Quarter 2010: | Math 507 | Hyperbolic geometry |
| Winter Quarter 2010: | Math 581 | Ring theory |
| Winter Quarter 2010: | Math 580 | Group theory |

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| Autumn Quarter 2008: | Math 366 (2) | Proof theory |
| Autumn Quarter 2008: | Math 150 | Calculus |
| Winter Quarter 2008: | Math 581 | Rings and modules theory |
| Winter Quarter 2008: | Math 415 (2) | Differential equations |
| Autumn Quarter 2007: | Math 580 | Group theory |
| Autumn Quarter 2007: | Math 131 | Calculus |
| Winter Quarter 2007: | Math 131 | Calculus |
| Autumn Quarter 2005: | Math 255 | Differential equations |
| Autumn Quarter 2005: | Math 150 | Calculus |
| Winter Quarter 2005: | Math 132 | Calculus |
| Autumn Quarter 2004: | Math 104 (2) | Precalculus |
| Spring Quarter 2004: | Math 568 (2) | Linear algebra |
| Autumn Quarter 2003: | Math 568 | Linear algebra |
| Winter Quarter 2002: | Math 571 (2) | Linear algebra |
| Autumn Quarter 2002: | Math 568 (2) | Linear algebra |
| Autumn Quarter 2002: | Math 153 | Calculus |
| Autumn Quarter 2001: | Math 530 | Probability |
| Autumn Quarter 2001: | Math 104 | Precalculus |
| Winter Quarter 2001: | Math 568 | Linear algebra |
| Winter Quarter 2001: | Math 131 | Calculus |
| Autumn Quarter 2000: | Math 568 | Linear algebra |
| Winter Quarter 2000: | Math 151 | Calculus |
| Winter Quarter 1999: | Math 255 (2) | Differential equations |
| Autumn Quarter 1998: | Math 161 (2) | Calculus |
| Winter Quarter 1998: | Math 152 | Calculus |
| Autumn Quarter 1997: | Math 568 | Linear algebra |
| Summer Quarter 1997: | Math 568 | Linear algebra |
| Winter Quarter 1997: | Math 255 | Differential equations |
| Autumn Quarter 1996: | Math 568 | Linear algebra |
| Winter Quarter 1996: | Math 162 | Calculus |
| Autumn Quarter 1995: | Math 132 (2) | Calculus |
| Winter Quarter 1995: | Math 131 | Calculus |
| Autumn Quarter 1994: | Math 132 (2) | Calculus |
| Winter Quarter 1994: | Math 132 | Calculus |
| Autumn Quarter 1993: | Math 131 (2) | Calculus |
| Summer Quarter 1993: | Math 568 | Linear algebra |
| Winter Quarter 1993: | Math 255 (2) | Differential equations |
| Autumn Quarter 1992: | Math 131 | Calculus |
| Autumn Quarter 1992: | Math 254, Math 512 | Differential equations |
| Summer Quarter 1992: | Math 569 | Linear algebra |
| Autumn Quarter 1991: | Math 132, Math 254 (2) | Calculus |
| Summer Quarter 1991: | Math 512 | Differential equations |
| Spring Quarter 1991: | Math 131 | Calculus |
| Spring Quarter 1991: | Math 255 (2) | Differential equations |

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| Autumn Quarter 1990: | Math 132, Math 153 (2) | Calculus |
| Summer Quarter 1990: | Math 366 | Proof theory |
| Autumn Quarter 1989: | Math 131 (2) | Calculus |
| Autumn Quarter 1989: | Math 131N | Calculus |
| Summer Quarter 1989: | Math 568 | Linear algebra |
| Winter Quarter 1989: | Math 568 (2) | Linear algebra |
| Spring Quarter 1988: | Math 150 | Calculus |
| Winter Quarter 1988: | Math 152 (2) | Calculus |
| Autumn Quarter 1987: | Math 131 (2) | Calculus |

3. Graduate

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| Autumn Semester 2014: | Math 8160 | The trace formula |
| Spring Semester 2013: | Math 8160 | The trace formula |
| Autumn Semester 2012: | Math 7161 | Lie Algebras |
| Winter Quarter 2012: | Math 983 | Elliptic modules |
| Spring Quarter 2011: | Math 981 | Representation Theory |
| Winter Quarter 2010: | Math 970 | Eisenstein Series |
| Autumn Quarter 2009: | Math 840 | Algebraic Geometry |
| Autumn Quarter 2009: | Math 857 | Functional Analysis |
| Winter Quarter 2009: | Math 771 | Rings and Modules |
| Winter Quarter 2007: | Math 671 | Rings and Modules |
| Autumn Quarter 2006: | Math 670 | Group Theory |
| Winter Quarter 2006: | Math 981 | p -adic Automorphic Forms |
| Winter Quarter 2005: | Math 981 | p -adic Automorphic Forms |
| Autumn Quarter 2003 | Math 983 | Automorphic Representations |
| Winter Quarter 2002: | Math 771 | Rings and Modules |
| Winter Quarter 2001: | Math 982 | Etale Cohomology |
| Autumn Quarter 2000: | Math 860 | Algebraic Topology |
| Spring Quarter 2000: | Math 772 | Algebra: Field Theory |
| Winter Quarter 2000: | Math 771 | Algebra: Rings and Modules |
| Winter Quarter 1999: | Math 982 | Perverse Sheaves with Applications |
| Winter Quarter 1998: | Math 841 | Derived Categories and D-Modules |
| Autumn Quarter 1997: | Math 840 | Algebraic Geometry |
| Winter Quarter 1997: | Math 970 | Motives and Tannakian Formalism |
| Autumn Quarter 1996: | Math 970 | Derived Categories |
| Winter Quarter 1996: | Math 970 | Homogeneous spaces |
| Autumn Quarter 1995: | Math 970 | Hasse principle |
| Winter Quarter 1995: | Math 970 | Galois cohomology |

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| Autumn Quarter 1994: | Math 970 | Galois cohomology |
| Spring Quarter 1994: | Math 893 | Representation Theory |
| Winter Quarter 1994: | Math 841 | Algebraic Geometry |
| Autumn Quarter 1993: | Math 893 | Representation Theory |
| Autumn Quarter 1993: | Math 840 | Algebraic Geometry |
| Winter Quarter 1993: | Math 693 | Automorphic Forms |
| Autumn Quarter 1992: | Math 693 | Automorphic Forms |
| Summer Quarter 1992: | Math 693 | Automorphic Forms |
| Spring Quarter 1992: | Math 970 | Representation Theory, Hopf Algebras |
| Spring Quarter 1990: | Math 975 | Algebraic Geometry |
| Winter Quarter 1990: | Math 975 | Algebraic Geometry |
| Spring Quarter 1989: | Math 874 | Symmetric Functions, Hall Polynomials |

III. Committee Service (department, university, college, year(s))

Actuarial Advising 2011-2015
 IIEC-PROCOMP 2011-2015
 Undergraduate Advising 2011-2015
 Undergraduate Recruitment 2011-2015
 Advisor for several incoming graduate students 2011-2015
 COPE - University Senate Council on the Physical Environment, 2006-2009
 Arithmetic Geometry Seminar organizer, 1997-
 Rigid Analytic Geometry Seminar organizer, 2006-2007
 Colloquium Committee 1996-97
 Colloquium Committee Chair 1998-99, 2004-05
 Math 255 Textbook Selection Committee 1992-93
 Math 255 Coordinator 1992-2005
 Math 415 Coordinator 2003-2006
 Math 580 Coordinator 2006-2007
 University Building and Space Committee 2006-2009
 Computer Committee 1992-94, 97-98
 Graduate Admissions 1992-94
 Hiring Committee 1993-94
 Tenure and Promotion 1993-95
 Teaching Evaluation 1993-2009
 OSHA Coordinator 1999 - 2003
 Tenure and Promotion 1999-2001
 Library Committee 2003-2006
 TangoOSU faculty advisor 2004-2013.
 ATCO (Argentine Tango in Columbus, Ohio) faculty advisor 2008-2015.
 Zionist Alliance student organization: Faculty advisor (one year)
 Taekwondo/Hapkido student club: Faculty advisor (one year)

IV. Consulting Activities

1. Journal referring:

Various Conference Proceedings
 Compositio Mathematicae
 Canadian Journal of Mathematics
 Communications in Algebra
 Inventiones Mathematicae
 Israel Journal of Mathematics
 Journal d'Analyse Mathématique
 Journal für die reine und angewandete Mathematik
 Memoirs of the American Mathematical Society
 Proceedings of the American Mathematical Society
 Transactions of the American Mathematical Society

2. Reviewing for Zentralblatt (often)

3. Reviewing for Math. Reviews

4. Book referring for the AMS

5. Examiner in PhD oral Exams

6. Examiner in Ph.D. defense in other departments at OSU

7. Recommendation letters, evaluation letters for hiring and promotion

8. Consultation and Collaboration

9. Examiner in Ph.D. defense in other universities

V. Invited Talks (title, place, date)

Two talks, Humboldt Universität Berlin, July 2014.

Representation theory seminar, Univ. of Amsterdam, April 2014.

Colloquium, TIFR Mumbai, January 2014.

Series of lectures, TIFR Mumbai, January 2014.

Series of lectures, University of Tokyo, September 2013.

Plenary lecture in Algebra section, Annual meeting of the Japan Math. Society, Ehime, Sept. 2013

Series of lectures, Erzincan University, June-July 2013

Colloquium, Ariel University, December 2012.

Colloquium, Erzincan University, July 2012.

Number Theory Seminar, Bielefeld University, December 2011.

Number Theory Seminar, Humboldt-Uni Berlin, June 2011.

“Panoramic” talk at the V Encuentro Nacional de Álgebra, La Falda, Córdoba, August 9, 2010

Colloquium, University of Indiana, Bloomington, April 16, 2010.

Algebra seminar, University of Indiana, Bloomington, April 16, 2010.

Borovoi Seminar, Tel-Aviv University, December 2009.

Algebra Seminar, Bar Ilan University, December 2009.

Number Theory Seminar, Ben Gurion University, December 2009.

Final Conference on Fundamental Groups in Arithmetic Geometry, Special Year at the Newton Institute, University of Cambridge UK, December 2009.
 Number Theory Seminar, Humboldt-Uni Berlin, December 2009.
 Special Talk, Institute for Advanced Studies, Princeton, December 2009.
 Number Theory Seminar, University of Cambridge UK, March 2009.
 Number Theory Seminar, Ben Gurion University, December 2008.
 Algebra Seminar, Bar Ilan University, December 2008.
 Number Theory Seminar, Humboldt-Uni Berlin, August 2008.
 Number Theory Seminar, University of Tel Aviv, May 2008.
 Number Theory Seminar, University of California San Diego, April 2008.
 p-adic modular forms seminar, University of California San Diego, April 2008.
 Number Theory Seminar, Tel-Aviv University, December 2006.
 Number Theory Seminar, Humboldt-Uni Berlin, July 2006.
 Colloquium, Universität Wien, November 2005.
 Algebra Seminar, Hebrew University, December 2004.
 Number Theory Seminar, Ben Gurion University, December 2004.
 Number Theory Seminar, Haifa University, December 2004.
 Lie Groups Seminar, Yale University, September 20, 2004.
 Number Theory Seminar, MPI Bonn, July 2004.
 Number Theory Seminar, Grenoble, France, March 24, 2004.
 Colloquium, EPFL, Lausanne Switzerland, March 19, 2004.
 Number Theory Seminar, Hebrew University, March 2004.
 Colloquium, Ben Gurion University, March 2004.
 Algebraic Geometry Seminar, Tel Aviv University, December 2003.
 Number Theory Seminar, MPI Bonn, July 2003.
 Number Theory Seminar, Köln, June, 2003.
 Colloquium, Saarbrücken, July 2003.
 Arbeitstagung conference in Bonn, Germany, June 2003.
 Oberseminar (Colloquium), MPI Bonn, May 2003.
 Hebrew Univ., Jerusalem, Number Theory seminar, Jan. 2, 2003.
 Tel Aviv Univ, Algebraic Geometry Seminar, 3 talks, Dec., 2002.
 ETH Zürich Number Theory seminar, Dec. 13, 2002.
 Princeton Number Theory seminar, Dec. 12, 2002.
 ICM Satellite conf on Number Theory, Weihai, August 2002.
 Academy of Science, Beijing, series of 2 talks of 2 hours each, August 2002.
 Tel Aviv Univ., Bernstein's seminar, series of 4 talks, June 2002.
 Humboldt Univ. Berlin, Series of 3 talks of 2 hours each, May 2002.
 Number Theory Seminar, Hebrew University, January 2002.
 Algebraic Geometry Seminar, Tel Aviv University, December 2000.
 Lie Groups Seminar, University of Michigan, October 2000.
 Algebra Seminar, Michigan State University, October 2000.
 Colloquium, Bielefeld Universität, July 2000.
 Algebra Seminar, Universität Duisburg, July 2000.
 Closing conference of Sonderforschungsbereich 343, Bielefeld, June 2000.

Colloquium, Humboldt Universität Berlin, June 2000.

Algebraic Geometry Seminar, Tel Aviv University, March 2000.

Orbital integrals and perverse sheaves, ICM Satellite conference Algebraic Groups and Related Structures, Bielefeld, August 1998.

Local-global principle for principal homogeneous spaces associated to motives, Number Theory Seminar, OSU, October 1997.

Local-global principle for principal homogeneous spaces associated to motives, Gentner-Symposium on Field Arithmetic, Tel Aviv Univ., October 1997.

Grothendieck's theorem on non abelian H2 and local-global principles, Group Cohomology Seminar OSU, March 1997.

Grothendieck's theorem on non abelian H2 and local-global principles, Tel Aviv algebraic geometry, January 1997.

Stabilizing the trace formula, Tata Inst. Fundamental Research, Mumbai, December 1996.

The fundamental lemma in the theory of automorphic forms, series of lectures, Tata Inst. of Fundamental Research, Mumbai, December 1996.

An elementary proof of a fundamental lemma, Representation Seminar, OSU, April 1996.

Automorphic forms with nonzero periods, Kobe number theory seminar, December 1995.

The fundamental lemma for orbital integrals on $GL(4)$ and $Gsp(2)$, Automorphic Forms on Algebraic Groups, RIMS, Kyoto, December 1995.

Representations of multiplicative groups of division algebras, American Math. Soc. Summer Institute, Santa Barbara, July 1992.

On the restriction of a representation to a subgroup and zeroes of L-functions, Number Theory Seminar OSU, January 1992.

Cyclic automorphic forms on a unitary group, Inst. Advanced Study, Hebrew Univ., Jerusalem, January 1992.

Fourier summation formula for the symmetric space $PGL(n)/GL(n-1)$, Tel-Aviv Univ., December 1991.

Distinguished representations and zeros of L-functions, Bar-Ilan, December 1991.

Drinfeld moduli schemes and automorphic forms, Conference on Arithmetic of Function Fields, OSU, June 1991.

The adjoint representation L-function, SPIC Institute of Math. Sciences, Madras, February 1991.

The adjoint representation L-functions, Tata Institute of Fundamental Research, Bombay, 1991.

Fourier trace formula, Tata Institute of Fundamental Research, Bombay, February 1991.

Distinguished representations, Tata Institute of Fundamental Research, Bombay, February 1991.

Geometric representation theory, Séminaire Groupes reductifs et formes automorphes, Univ. Paris VII, Paris: June 1988.

Endoscopic lifting from $GL(m, E)$ to $GL(n, F)$, special year workshop on automorphic forms, Hebrew Univ., Jerusalem: May 1988.

Simple trace formula, Univ. Paris VII: July 1987.

Geometric Ramanujan Conjecture and Drinfeld Reciprocity Law, Selberg Symposium, Oslo, Norway: June 1987.

Simple trace formula, Harvard University Representation Theory Seminar: March 1987.
 Geometric Ramanujan Conjecture, Harvard University Number Theory Seminar: February 1987.
 Nonabelian class field theory, Hebrew University Colloquium: January 1987.
 On Drinfeld's Reciprocity Law and Elliptic Modules, Tel-Aviv University: January 1987.
 Twisted tensors and Euler products, Northwestern University seminar: March 1986.
 Automorphic forms on unitary groups, Harvard University Number Theory Seminar: February 1986.
 On the symmetric-square, Stanford Colloquium: May 1986.
 Metaplectic correspondence, OSU hiring talk: February 1985.
 Metaplectic correspondence, Hebrew University Colloquium: January 1985.
 Unitary quasi-lifting, Conference at Bowdoin College, Maine: August 1984.
 Automorphic forms and class field theory, sequence of lectures at Hebrew Univ. Jerusalem: May-June 1982.
 On the Ramanujan conjecture and zeta functions for $U(3)$, Hebrew University Jerusalem, Colloquium: January 1982.
 Shimura varieties and the Ramanujan conjecture for $U(3)$, Tel-Aviv Univ. Colloquium: January 1982.
 On the symmetric square, Vancouver conference on Shimura varieties and automorphic forms: August 1981.
 The adjoint lifting, Dijon conference on automorphic forms: March 1980.
 The adjoint lifting from $SL(2)$ to $PGL(3)$, Séminaire theorie de nombres, Paris: February 1980.
 Automorphic forms on the metaplectic group, Univ. Paris VII, groupe d'étude theorie de representations: April 1979.
 Transcendental numbers and abelian varieties, Conference at Ecole Polytechnique: April 1979.
 Automorphic forms on the metaplectic group, Institute for Advanced Study Colloquium: March 1979.
 Automorphic forms on covering groups of $GL(2)$, Number theory sem., Columbia Univ.: February 1979.
 Automorphic forms on metaplectic groups, Institute for Advanced Study workshop, four talks: January-February 1979.
 Linear forms in logarithms on abelian varieties, Cambridge Univ., UK, arithmetic seminar: May 1978.