

FREYDOON SHAHIDI

EDUCATION

B.S.	University of Tehran	1969
Ph.D.	The Johns Hopkins University	1975

POSITIONS

Member	Institute for Advanced Study	1975-76
Visiting Asst. Prof.	Indiana University	1976-77
Assistant Professor	Purdue University	1977-82
Associate Professor	Purdue University	1982-86
Professor	Purdue University	1986-
Distinguished Professor	Purdue University	2001-

VISITING POSITIONS

Visiting Asst. Prof.	University of Toronto	1981- 82
Member	Institute for Advanced Study	1983-84
Invited Professor	Ecole Normale Superieure de Jeunes Filles	June 1985
Visiting Professor	University of Chicago	May 16-June 10, 1988
Invited Professor	University of Paris VII	June 1990
Member	Institute for Advanced Study	1990-91
Visiting Professor	Centre de Recherches Mathématiques, Montréal	May 18-25, 1991
Fellow	Japan Society for the Promotion of Science Kyoto University	May 11-June 2, 1993
Visiting Professor	Katholische Universität Eichstätt, Germany	June 14-July 10, 1993
Visiting Member	Mathematical Sciences Research Institute Berkeley, California	October 16-29, 1994 March 21-26, 1995
Invited Professor	Ecole Normale Superieure	May 10-June 9, 1995
Visiting Professor	Institute for Studies in Theoretical Physics and Mathematics (IPM), Tehran, Iran	June 21-August 4, 1995
Fellow	Japan Society for the Promotion of Science (JSPS) Kyoto University	February 1997
Visiting Professor	California Institute of Technology	April-July 1997
Visiting Professor	University of Iowa	May 1998
Visiting Professor	Tata Institute of Fundamental Research Bombay, India	Dec. 24, 1998-Jan. 16, 1999
Short Term Visitor	Institute for Advanced Study	Oct. 17-Nov. 3, 1999

VISTING POSITIONS (CONT.)

Short Term Visitor	Institute for Advanced Study	Feb. 27-Mar. 18, 2000
Visiting Professor	Hong Kong University of Science and Technology	May 2000
Invited Professor	Institute Henri Poincaré, Centre Emile Borel	June 17-July 14, 2000
Short Term Visitor	Institute for Advanced Study	Oct. 2001 & Feb. 2002
Member	Fields Institute	March 9-26, 2003
Visiting Professor	Erwin Schrödinger Institute, Vienna, Austria	Jan. 24-Feb. 10, 2006 and Feb. 18-24, 2007
Short Term Visitor	Institute for Advanced Study	April 16-29, 2006
Invited Professor	Université Paris-Sud, Orsay, France	May 17-June 14, 2008
Visiting Professor	Erwin Schrödinger Institute, Vienna, Austria	Feb. 1-14, 2009
Visiting Professor	Morningside Institute, Chinese Academy, Beijing, China	June 13-20, 2011
Visiting Member	Max Planck Institute for Mathematics, Bonn, Germany	Sept. 5-9, 2011
Visiting Professor	Erwin Schrödinger Institute, Vienna, Austria	Jan. 3-27, 2012
Short Term Visitor	Institute for Advanced Study	March 5-17, 2012
Visiting Professor	Mathematical Sciences Center, Tsinghua University, Beijing, China	July 1-21, 2013
Visiting Professor	Vietnam Institute for Advanced Study in Mathematics (VIASM), Hanoi, Vietnam	July 22-26, 2013
Visiting Professor	Erwin Schrödinger Institute, University of Vienna, Vienna, Austria	Oct. 16-25, 2013 and May 17-31, 2015
Visiting Professor	Institute for Computational and Experimental Research in Mathematics (ICERM), Brown University, Providence, Rhode Island	Oct. 18-Nov. 14, 2015
Ordway Distinguished Lecturer	University of Minnesota, Minneapolis, Minnesota	Nov. 6-19, 2016

AWARDS AND HONORS

Fellow of American Mathematical Society (Inaugural class)	2012
American Academy of Arts and Sciences Elected Fellow	2010
NSF (last 5 grants: 2002-07 continuing grant, total \$465,960, 2007-2012 continuing grant, total \$412,460, 2012-2015 continuing grant, total \$345,000, 2015-2018 continuing grant, total \$270,000, 2018-2021 continuing grant, total \$275,000)	1977-Present
Japan Society for the Promotion of Science (JSPS) Fellow	1993, 1996
Clay Mathematics Institute (CMI) Prize Fellow	2000
Honorary Member of Iranian Mathematical Society	2000-
John Simon Guggenheim Fellow	2001

AWARDS AND HONORS (CONT.)

Invited Speaker, International Congress of Mathematicians 2002 (ICM 2002), Section on Lie Group and Representation Theory, Beijing, China	August 20-28, 2002
Distinguished Professor of Mathematics, Purdue University	2001-
Distinguished Visitors Lecture Series, University of Iowa	October 1993
Distinguished Visitor Lecture Series, UCLA	November 2001
Joseph Fels Ritt Lectures, Columbia University	April 2005
Langenhop Lecture, Southern Illinois University	April 2016
Ordway Distinguished Lectures, University of Minnesota	November 2016
Ruth & Joel Spira Faculty Teaching Award, Purdue University (For Excellence in Graduate Teaching & Mentoring)	April 2019

RESEARCH INTEREST

Automorphic Forms

VITA

Birthplace: Tehran, Iran
Marital Status: Married (Guity Ravai)

Children: Two (Alireza, Amir)
Military Service: 1969-1971

PUBLICATIONS

1. "Functional equation satisfied by certain L-functions," *Compositio Mathematica* 37 (1978), 171-208.
2. "Modular forms and L-functions," Proceedings of the Eighth Annual Iranian Mathematics Conference, March 1977, Tehran, Iran.
3. "Whittaker models for real groups," *Duke Mathematical Journal* 47 (1980), 99-125.
4. "On certain L-functions," *American Journal of Mathematics*, 103(2) (1981), 297-355.
5. "On non-vanishing of L-functions," *Bull. AMS.* 2(3) (1980) 462-464.
6. "On non-vanishing of L-functions for $GL(n)$," Canadian Mathematical Society Conference Proceedings 1 (1981), AMS, Providence, R.I.
7. "Local coefficients and normalization of intertwining operators for $GL(n)$," *Compositio Mathematica* 48 (1983), 271-295.
8. (with C. J. Moreno) "The fourth moment of Ramanujan τ -function," *Math. Ann.* 266 (1983), 233-239.

PUBLICATIONS (CONT.)

9. "Some results on L-indistinguishability for $SL(r)$," *Canad. J. Math.* 35 (1983), 1075-1109.
10. "Fourier transforms of intertwining operators and Plancherel measures for $GL(n)$," *Amer. J. Math.* 106 (1984), 67-111.
11. (with P.D.T.A. Elliott and C. J. Moreno) "On the absolute value of Ramanujan's τ -function," *Math. Ann.* 266 (1984), 507-511.
12. "Local coefficients as Artin factors for real groups," *Duke Mathematical Journal* 52 (1985), 973-1007.
13. (with C. J. Moreno) "The L-function $L_3(s, \pi_\Delta)$ is entire," *Invent. Math.* 79 (1985), 247-251.
14. (with C. J. Moreno) "The L-functions $L(s, \text{Sym}^m(r) \pi)$," *Canadian Mathematical Bulletin* (Smith's Memorial Volume) 28 (1985), 405-410.
15. "On the Ramanujan conjecture and finiteness of poles for certain L-functions," *Annals of Mathematics* 127 (1988), 547-584.
16. "A weak Ramanujan conjecture for generic cuspidal spectrum of quasi-split groups," *Bull. AMS* 15 (1986), 195-200.
17. (with D. Keys) "Artin L-functions and normalization of intertwining operators," *Annales Scientifiques de l'Ecole Normale Supérieure* 21 (1988), 67-89.
18. "Third Symmetric Power L-functions for $GL(2)$," *Compositio Mathematica* 70 (1989), 245-273.
19. "Automorphic L-functions: A Survey," in *Automorphic Forms, Shimura Varieties, and L-Functions*, Editors L. Clozel and J.S. Milne, July 1988, Vol 1, Perspectives in Mathematics, Academic Press, 1990, 415-437.
20. "A proof of Langlands Conjecture on Plancherel measures; Complementary series for p-adic groups," *Annals of Mathematics* 132 (1990), 273-330.
21. "Langlands Functoriality Conjecture," in *Proceedings of the 20th Annual Iranian Mathematics Conference*, Tehran University, March 1989, 647-665.
22. "Best estimates for Fourier coefficients of Maass forms," in *Automorphic Forms and Analytic Number Theory*, Editor R. Murty, CRM, (1990), 135-141.
23. "On multiplicativity of local factors," in *Festschrift in honor of I.I. Piatetski-Shapiro*, Part II, Israel Mathematical Conference Proceedings, Vol. 3, (1990), 279-289.
24. "Langlands' Conjecture on Plancherel measures for p-adic groups," in *Harmonic Analysis on Reductive Groups*, Editors W. Barker and P. Sally, Progress in Mathematics, Birkhäuser, (1991), 277-295.

PUBLICATIONS (CONT.)

25. “L-functions and Representation theory of p-adic groups,” in *P-adic Methods and Applications*, Editors A.J. Baker and R.J. Plymen, Oxford University Press, (1992), 91-112.
26. “Twisted endoscopy and reducibility of induced representations for p-adic groups,” *Duke Mathematical Journal* 66 (1992), 1-41.
27. “Symmetric power L-functions for $GL(2)$,” in *Elliptic Curves and Related Topics*, Editors H. Kisilevsky and R. Murty, CRM Proceedings & Lecture Notes, (1994), 159-182.
28. “The notion of norm and the representation theory of orthogonal groups,” *Invent. Math* 119 (1995), 1-36.
29. (with H. Kim) “Quadratic unipotent Arthur parameters and residual spectrum of symplectic groups,” *American Journal of Mathematics* 118 (1996), 401-425.
30. (with D. Goldberg) “On the tempered spectrum of quasi-split classical groups,” *Duke Mathematical Journal* 92 (1998), 255-294.
31. (with W. Casselman) “On irreducibility of standard modules for generic representations,” *Annales Scientifique de l’Ecole Normale supérieure* 31 (1998), 561-589.
32. “Intertwining operators, L-functions, and representation theory,” Lecture notes of the Eleventh KAIST Mathematics Workshop 1996, Editor J. K. Koo, KAIST, Taejon, Korea (1998), 1-63.
33. “On non-vanishing of twisted symmetric and exterior square L-functions for $GL(n)$,” in volume dedicated to Olga Taussky-Todd, Editors: M. Aschbacher, D. Blasius, and D. Ramakrishnan, *Pacific J. Math.*, International Press, (1998), 311-322.
34. (with G. Muic) “Irreducibility of standard representations for Iwahori-spherical representations,” *Math. Ann.* 312 (1998), 151-165.
35. (with H. Kim) “Symmetric cube L-functions for GL_2 are entire,” *Annals of Mathematics* 150 (1999), 645-662.
36. “Poles of intertwining operators via endoscopy; the connection with prehomogeneous vector spaces,” with an appendix “Basic endoscopic data” by D. Shelstad, dedicated to the memory of Magdy Assem, *Compositio Mathematica* 120 (2000), 291-325.
37. (with D. Goldberg) “The theory of intertwining operators, R-groups, and elliptic representations,” in *Introduction to Representation Theory of Reductive P-adic Groups and Langlands Program*, Editors: C. Bushnell, P. Kutzko, J. Pantoja, and J. Soto Andrade, to appear.
38. “Twists of a general class of L-functions by highly ramified characters,” *Canad. Math. Bull.* 43 (2000), 380-384.

PUBLICATIONS (CONT.)

39. (with H. Kim) “Functorial products for $GL_2 \times GL_3$ and functorial symmetric cube for GL_2 ,” *Comptes Rendus de l’Académie des Sciences* 331, Série I (2000), 599-604.
40. (with S. Gelbart) “Boundedness of automorphic L-functions in vertical strips,” *Journal of AMS* 14 (2001), 79-107.
41. (with H. Kim) “Holomorphy of Rankin triple L-functions and special values and root numbers for symmetric cube L-functions,” *Israel Journal of Mathematics* 120 (2000), 449-466.
42. (with D. Goldberg) “On the tempered spectrum of quasi-split classical groups II,” *Canad. J. Math.* 53 (2001), 244-277.
43. (with J. Cogdell, H. Kim, and I. I. Piatetski-Shapiro) “On lifting from classical groups to GL_N ,” *Publ. Math. IHES* 93 (2001), 5-30.
44. (with H. Kim) “Cuspidality of symmetric powers with applications,” *Duke Mathematical Journal* 112 (2002), 177-197.
45. (with H. Kim) “Functorial products for $GL_2 \times GL_3$ and the symmetric cube for GL_2 ,” with an appendix by C. J. Bushnell and G. Henniart, *Annals of Mathematics* 155 (2002), 837-893.
46. (with H. Kim) “Symmetric cube for GL_2 ,” *Proceedings of International Conference on Cohomology of Arithmetic Groups, L-functions, and Automorphic Forms*; Tata Institute of Fundamental Research, Mumbai 1998, Editor: T.N. Venkataramana, TIFR-Narosa Publ., AMS dist., (2001), 205-213.
47. (with H. Kim) “On the holomorphy of certain L-functions,” in “Contributions to Automorphic Forms, Geometry and Arithmetic,” in honor of Joseph Shalika’s 60th Birthday, Editors: H. Hida, D. Ramakrishnan and F. Shahidi, The Johns Hopkins University Press, Baltimore-London, (2004), 561-572.
48. “Automorphic L-functions and Functoriality,” *Proceedings of the International Congress of Mathematicians*, vol. II (2002, Beijing), 655-666, Higher Education Press, Beijing, China, 2002.
49. “Local coefficients as Mellin transforms of Bessel functions; Towards a general stability,” *International Mathematics Research Notices (IMRN)* 2002 (2002), no. 39, 2075-2119.
50. (with J. Cogdell, H. Kim, and I. I. Piatetski-Shapiro) “Functoriality for classical groups,” *Publ. Math. IHES*, 99 (2004), 163-233.
51. “Functoriality and small eigenvalues of Laplacian on Riemann surfaces,” *Surveys in Differential Geometry*, in “Eigenvalues of Laplacian and other Geometric Operators”, A. Grigor’yan and S-T. Yau (ed.), Vol. IX, International Press, Somerville, MA, 385-400 (2004).

PUBLICATIONS (CONT.)

52. “Jean-Pierre Serre and Number Theory,” in Persian, Nashr-e Riyazi, 14 (2003), 6-9.
53. (with H. Kim) “On simplicity of poles of automorphic L-functions,” *Journal of Ramanujan Mathematical Society*, 19 (2004), 177-197.
54. “On the Ramanujan conjecture for quasisplit groups,” *Asian Journal of Mathematics* (Volume in the Memory of Armand Borel), 8 (2004), 813-836.
55. (with J. Cogdell and I. I. Piatetski-Shapiro) “Partial Bessel functions for quasisplit groups,” *Automorphic Representations, L-functions and Applications, Progress and Prospects*, Volume in honor of S. Rallis’s 60th Birthday, Walter de Gruyter, Berlin, 95-128 (2005).
56. “Infinite dimensional groups and automorphic L-functions,” *Pure and Applied Math. Quarterly* 1 (2005); no. 3, Special Issue: In Memory of Armand Borel, Part 2 of 3, 683-699.
57. (with M. Asgari) “Generic transfer for general spin groups,” *Duke Mathematical Journal*, 132 (2006), 137-190.
58. (with M. Asgari) “Generic transfer from $\mathrm{GSp}(4)$ to $\mathrm{GL}(4)$,” *Compositio Mathematica*, 142 (2006), 541-550.
59. (with H. Kim) “Holomorphy of the 9th symmetric power L-functions for $\mathrm{Re}(s) > 1$,” *International Mathematics Research Notices (IMRN)*, 2006 (2006), No. 14, 1-7.
60. (with D. Ramakrishnan) “Siegel modular forms of genus 2 attached to elliptic curves,” *Mathematical Research Letters*, 2 (2007), 315-332.
61. “Langlands-Shahidi Method,” in “Automorphic Forms and Applications”, Editors: P. Sarnak and F. Shahidi, IAS/Park City Mathematics Series, Vol. 12, AMS/IAS, 299-330 (2007).
62. (with J. Cogdell and I. I. Piatetski-Shapiro) “Stability of γ -factors for quasi-split groups,” *Journal de l’Institut de Mathematiques de Jussieu*, 7 (2008), 27-66.
63. (with A. Raghuram) “Functoriality and special values of L-functions,” in “Eisenstein Series and Application”, Editors: W. Gan, S. Kudla and Y. Tschinkel, *Progress in Mathematics*, Vol. 258 Birkhauser, Boston, 271-293 (2008).
64. “Langlands functoriality conjecture and number theory,” in “Automorphic Forms and Representation Theory”, Editors: T. Kobayashi, W. Schmidt, and J.-H. Yang, *Progress in Mathematics*, Vol. 255, Birkhauser, Boston, 151-173 (2008).
65. “L-functions and poles of intertwining operators”, Appendix to: “Residues of intertwining operators for classical groups” by S. Spallone, *International Mathematics Research Notices (IMRN)*, 2008 (2008), article ID rnn 095, 13 pages.

PUBLICATIONS (CONT.)

66. (with A. Raghuram) “On certain period relations for cusp forms on $GL(n)$ ”, *International Mathematics Research Notices (IMRN)*, 2008 (2008), article ID rnn 077, 23 pages.
67. “Complexity of group actions and stability of root numbers” with an appendix by W. Kuo; in the volume in honor of S. Gelbart’s 60th Birthday; Editors: D. Ginzburg, E. Lapid and D. Soudry; *Contemporary Mathematics* 489, AMS, 259-276 (appendix: 277-283), 2009.
68. (with S. Spallone) “Residues of intertwining operators for SO_6^* as character identities, *Compositio Mathematica*, 146 (2010), no. 3, 772-794.
69. In Memoriam: Joseph A. Shalika 1941-2010, *American Journal of Mathematics*, 132 (2010), no. 6, i-ii.
70. (with J. Cogdell and I. I. Piatetski-Shapiro) “Functoriality for the quasisplit classical groups,” in “On Certain L-functions”, Volume for F. Shahidi’s 60th Birthday; Editors: J. Arthur, J. Cogdell, S. Gelbart, D. Goldberg, D. Ramkrishnan, and J.-K. Yu, *Clay Mathematics Proceedings*, AMS-CMI, Vol. 13, 117-140 (2011).
71. (with J. Cogdell) “Some generalized functionals and their Bessel functions”, in “Arithmetic Geometry and Automorphic Forms”, Volume in honor of S. Kudla, Editors: J. Cogdell, J. Funke, M. Rapoport and T. Yang, *Advanced Lectures in Mathematics Higher Education and International Press*, Beijing-Boston, Vol. 19, 55-90 (2011).
72. “Arthur Packets and Ramanujan conjecture”, *Kyoto Journal of Mathematics* (M. Nagata Memorial Issue), 51 (2011), no. 1, 1-23; Addendum, no. 2, 502.
73. “On equality of arithmetic and analytic factors through local Langland correspondence”, in the Memorial Volume for Jonathan Rogawski, Editors: D. Blasius, D. Ramakrishnan, and V.S. Varadarajan, *Pacific Journal of Mathematics* 260, No. 2 (2012), 695-715.
74. “An overview of the theory of Eisenstein series”, in *p-adic Representations, Θ -Correspondence, and the Langlands-Shahidi Theory*, Editors: Ye Yangbo and Tian Ye, *Lecture Series of Modern Number Theory*, Vol. 1, Science Press, Beijing, China, 108-133 (2013).
75. (with D. Goldberg) “The tempered spectrum of quasi-split classical groups III: The odd orthogonal groups,” *Forum Math.*, 26 (2014), 1029-1069.
76. “Eisenstein series, L-functions and representation theory”, in *Automorphic Forms and L-functions*, Proceedings of CIMPA-UNESCO-CHINA Research School, Shandong, China, August 2010, Editor: Jianya Liu, *Advanced Lectures in Mathematics*, Higher Education Press, Vol. 30, 149-178 (2014).
77. (with S. Gelbart, S.D. Miller, and A. Panchishkin) “A p-adic integral for the reciprocal of L-functions”, in *Automorphic Forms and Related Geometry: Assessing the Legacy of I.I. Piatetski-Shapiro*, Editors: J. Cogdell, F. Shahidi, and D. Soudry, *Contemporary Mathematics* 614, 53-68 (2014).
78. (with J. Cogdell and T.-L. Tsai) “On stability of root numbers”, in *Automorphic Forms and Related Geometry: Assessing the Legacy of I.I. Piatetski-Shapiro*, Editors: J. Cogdell, F. Shahidi, and D. Soudry, *Contemporary Mathematics* 614, AMS, 375-386 (2014).

PUBLICATIONS (CONT.)

79. (with M. Asgari) “Image of functoriality for general spin groups”, *Manuscripta Mathematica*, 144 (2014), 609-638.
80. (with N. Grbac) “Endoscopic transfer for unitary groups and holomorphy of Asai L-functions”, *Pacific Journal of Mathematics*, 276, No. 1 (2015), 185-211.
81. (with M. Asgari and J. Cogdell), “Local transfer and reducibility of induced representation of p-adic groups of classical type”, in “Advances in the Theory of Automorphic Forms and their L-functions”, in honor of J. Cogdell’s 60th Birthday, Editors: D. Jiang, F. Shahidi, and D. Soudry, *Contemporary Mathematics* 664, 1-22, (2016).
82. (with J. Cogdell and T.-L. Tsai) “Local Langlands correspondence and exterior and symmetric square root numbers for $GL(n)$ ”, *Duke Mathematical Journal*, 166, No. 11 (2017), 2053-2132.
83. “Local factors, reciprocity, and Vinberg monoids” in “Prime Numbers and Representation Theory”, Lecture Series of Modern Number Theory, Vol. 2, Science Press, Beijing, China, 200-256 (2017).
84. (with S. Gelbart, R. Greenberg and S.D. Miller) “Estimates on Eisenstein distributions for reciprocals of p-adic L-functions: the case of irregular primes”, In “Representation Theory, Number Theory, and Invariant Theory”, Volume in honor of Roger Howe’s 70th birthday, *Progress in Mathematics*, Vol. 323, Birkhäuser, 193-208, (2017).
85. (with F. Gao and D. Szpruch) On the local coefficients matrix for coverings of SL_2 , in “Geometry, Algebra, Number Theory, and Their Information Technology Applications”, Proceedings of the conference in honor of Kumar Murty, June 2016, Toronto, Canada, *Springer Proceedings in Mathematics and Statistics Series*, Vol. 251, 207-244, (2018).
86. “On generalized Fourier transforms for standard L-functions”, with an appendix by Wen-Wei Li, in *Geometric Aspects of the Trace Formula*, Proceedings of the Simons Symposium, Elmau, Germany, April 2016, Springer-Verlag, *Simons Symposia*, 351-404, (2018).
87. Review of James Arthur’s book, *The Endoscopic Classification of Representations: Orthogonal and Symplectic Groups*, *Colloquium Publications*, Vol. 61, AMS, (2013); *The Bulletin of AMS*, Solicited by AMS, Vol. 56, No. 1 (2019), 151-158.
88. (with F. Gao and D. Szpruch) “Gamma factors for genuine principal series representations of covering groups”, *Memoirs of AMS*, pp. 1-116, accepted.
89. “Automorphic L-functions”, in “The Genesis of Langlands Program”, Editors: J. Müller and F. Shahidi, Cambridge University Press, accepted.

BOOKS

1. (with S. Gelbart) “Analytic properties of automorphic L-functions,” *Perspectives in Mathematics*, Academic Press, 1988.
2. Co-editor (with Haruzo Hida and Dinakar Ramakrishnan) of “Contributions to Automorphic Forms, Geometry and Arithmetic” in honor of Joseph Shalika’s 60th Birthday, The Johns Hopkins University Press, Baltimore-London, 2004.

BOOKS (CONT.)

3. Co-editor (with Peter Sarnak) of “Automorphic Forms and Applications”, IAS/Park City Mathematics Series, Vol. 12, AMS, 2007.
4. “Eisenstein Series and Automorphic L-functions”, Colloquium Publication Series of AMS, Series Editors: Y. Manin, P. Sally and P. Sarnak, Vol. 58, 2010.
5. Co-editor (with J. Cogdell and D. Soudry) of “Automorphic Forms and Related Geometry: Assessing the Legacy of I. I. Piatetski-Shapiro, Contemporary Mathematics, Vol. 614, AMS, 2013.
6. Co-editor (with D. Jiang and D. Soudry) of “Advances in the Theory of Automorphic Forms and their L-functions; in honor of James Cogdell’s 60th Birthday”, Contemporary Mathematics, AMS, 2015.
7. Co-editor (with J. Cogdell, G. Harder and S. Kudla) of “Cohomology of Arithmetic Groups” – On the occasion of Joachim Schwermer’s 66th birthday, Springer-Verlag.
8. Guest Editor with J. Cogdell of Notices of AMS for the special section in honor of James Arthur’s Steele Prize for Lifetime Achievement, Notices of AMS, Vol. 65, No. 6, June/July 2018, 637-645.
9. Co-editor (with J. Müller) of “The Genesis of Langlands Program”, Cambridge University Press.

INVITED ADDRESSES

1. “Modular forms and L-functions,” Eighth Annual Iranian Mathematics Conference, March 28-31, 1977, Tehran, Iran.
2. Colloquium, Johns Hopkins University, October 17, 1979.
3. “On non-vanishing of L-functions for $GL(n)$,” Canadian Mathematical Society Summer Seminar on Harmonic Analysis, August 4-22, 1980, McGill University, Montreal, Canada.
4. “Fourier transforms of intertwining operators for $GL(n)$ over a p-adic field,” Colloquium week on Representation Theory and Related Topics, May 5-7, 1981, Cornell University, Ithaca, New York.
5. “Intertwining operators for $SL(r)$ over a p-adic field,” Special Session on Representation Theory and Automorphic Forms, AMS Meeting, College Park, Maryland, October 30-31, 1982.
6. “On non-vanishing of L-function,” Number Theory Seminar, University of Illinois in Urbana, December 7, 1982.
7. “Intertwining operators and the trace formula,” Fifth Annual Midwest Conference on Representation Theory and Automorphic Forms, University of Chicago, April 15-16, 1983.
8. “Intertwining operators and L-indistinguishability for SL_r ,” Summer Seminar on Representation Theory of p-adic Groups, University of Chicago, July 5-August 5, 1983.

INVITED ADDRESSES (CONT.)

9. "Plancherel measures for $GL(n)$ over a p -adic field," NSF Regional Conference on Representation Theory and Harmonic Analysis on Reductive p -adic Groups, University of Chicago, August 8-12, 1983.

The following four talks were given at the Institute for Advanced Study during its special year on Automorphic Forms and L-Functions:

10. "Intertwining operators and L-functions," Seminar on L-Functions of Automorphic Forms on Classical Groups, December 8 and 15, 1983.
11. "Rankin-Selberg convolutions for $GL(n)$," Seminar on L-Functions and the Weil Representations, January 26, 1984.
12. "Classification of automorphic forms on $GL(n)$," Seminar on L-Functions and the Weil Representations, February 2, 1984.
13. "Artin L-Functions and normalization of intertwining operators," Seminar on Analytic Aspects of the Trace Formula, II, March 2, 1984.
14. Colloquium, University of Illinois at Urbana, February 28, 1985.
15. Number Theory Seminar, Princeton University, April 9, 1985.
16. Colloquium, Johns Hopkins University, April 10, 1985.
17. "On the L-functions attached to symmetric powers," Ecole Normale Supérieure de Jeunes Filles, Paris, France, June 19 and 26, 1985.
18. Colloquium, Rutgers University at Newark, November 13, 1985.
19. Representation Theory Seminar, Rutgers University at New Brunswick, November 15, 1985.
20. "Intertwining operators attached to the P -adic components of cusp forms," U.S.-France Conference on P -adic groups, University of Iowa, Iowa City, Iowa, July 21-25, 1986.
21. Colloquium, Ohio State University, October 30, 1986.
22. Colloquium, University of Tennessee, November 14, 1986.
23. "Plancherel measures and L-functions," special session on Unitary Representations, Cohomology, and G/Γ AMS Meeting, Newark, New Jersey, April 25-26, 1987.

INVITED ADDRESSES (CONT.)

24. "On the Ramanujan-Petersson's conjecture," Mathematical Sciences Research Institute, Berkeley, California, June 11, 1987.
25. "Plancherel measures for p-adic groups," Meeting on Representation Theory of Reductive Lie Groups, Mathematisches Forschungsinstitut Oberwolfach, Germany, July 26-August 1, 1987.
26. "Transfer factors, Plancherel measures, and L-indistinguishability," two talks, Workshop on p-adic groups with applications to automorphic forms, Mathematical Sciences Research Institute, Berkeley, California, February 8-12, 1988.
27. "Plancherel measures for p-adic groups," two talks in the Group Representations Seminar, University of Chicago, May 24 and June 1, 1988.
28. "An overview of Langlands Program," University of Chicago, June 7, 1988.
29. "Finiteness of poles for certain L-functions and symmetric cube L-functions for cusp forms on $GL(2)$," Conference on Modular Forms in Several Complex Variables, Sonderforschungsbereich 170, "Geometrie und Analysis," Mathematisches Institut, Göttingen, Germany, July 7-11, 1988.
30. "A survey of automorphic L-functions," two talks, Conference on Automorphic Forms, Shimura Varieties, and L-Functions, University of Michigan, Ann Arbor, July 6-16, 1988.
31. Colloquium, University of Toronto, November 15, 1988.
32. Number Theory and Group Representations Seminar, University of Toronto, November 16, 1988.
33. "Langlands' Functoriality Conjecture," Plenary lecture in 20th Annual Iranian Mathematics Conference, March 1989, Tehran University, Tehran, Iran.
34. "Automorphic L-functions," 20th Annual Iranian Mathematics Conference, March 1989, Tehran, Iran.
35. "Best estimates for the Fourier coefficients of cusp forms," Number Theory Workshop, Rutgers University at New Brunswick, April 17-May 31, 1989.
36. "Automorphic L-functions and estimates for Fourier coefficients of Maass forms," Seminar on Reductive Groups and Automorphic Forms, University of Paris VII, May 18, 1989.
37. "Reducibility of induced representations for p-adic groups," Conference on Cohomology of Arithmetic Groups, May 21-27, 1989, Luminy/Marseille, France.
38. "Best estimates for Fourier coefficients of Maass forms," Conference on Analytical Number Theory, Centre de Recherches Mathématiques, June 6-10, 1989, Montreal, Canada.
39. "Langlands' conjecture on Plancherel measures for p-adic groups," Conference on Harmonic Analysis on Reductive Groups, Bowdoin College, July 30-August 12, 1989.

INVITED ADDRESSES (CONT.)

40. Colloquium, Yale University, October 4, 1989.
41. Representation Theory Seminar, University of Maryland, February 22, 1990.
42. Representation Theory Seminar, Cornell University, April 18, 1990.
43. "Twisted endoscopy and the reducibility of representations for p-adic groups," Conference on Representation Theory of p-adic groups and L-functions, University of Maryland, College Park, May 4-6, 1990.
44. "Intertwining operators, L-functions, and representation theory of p-adic groups," four talks, lecture series at the Conference on Representation Theory and Harmonic Analysis of Reductive P-adic groups, June 5-15, 1990, Luminy/Marseille, France.
45. "Number Theory and Group Representations," 15 hours short course at the Atomic Energy Organization of Iran, July 1990, Tehran, Iran.
46. "Automorphic L-functions and analytic number theory," Joint IAS-Rutgers University Analytic Number Theory Seminar, Institute for Advanced Study, October 11, 1990.
47. Number Theory Seminar, Columbia University, October 22, 1990.
48. Colloquium, Rutgers University at Newark, November 28, 1990.
49. "Twisted endoscopy and local period integrals," Meeting on Automorphe Formen und Anwendungen, Mathematisches Forschungsinstitut Oberwolfach, Germany, January 6-12, 1991.
50. Number Theory Seminar, McGill University, Montréal, Canada, February 28, 1991.
51. Colloquium, McGill University, Montréal, Canada, March 1, 1991.
52. Members Seminar, Institute for Advanced Study, March 18, 1991.
53. Lie Groups Seminar, Rutgers University at New Brunswick, March 27, 1991.
54. "Twisted endoscopy and the representation theory of p-adic groups," P-adic Field of Dreams Conference, University of Iowa, Iowa City, April 5-7, 1991.
55. Colloquium, Yale University, April 17, 1991.
56. Lie Groups Seminar, Yale University, April 18, 1991.
57. Colloquium, Clark University, April 19, 1991.

INVITED ADDRESSES (CONT.)

58. "L-functions of symmetric powers," lecture series given during the Special Year in Automorphic Forms in Number Theory at Centre de Recherches Mathématiques, Montreal, October 28 and 30, 1991.
59. "The notion of norm and local L-functions for $GL(m) \times SO(n)$," Conference on L-Functions and Automorphic Representations, Ohio State University, Columbus, March 12-15, 1992.
60. "L-functions as poles of intertwining operators," P-adic Field of Dreams Conference, University of Iowa, Iowa City, April 3-5, 1992.
61. "Endoscopy and products of groups," Conference on Progress in L-indistinguishability, May 25-29, 1992, Luminy/Marseille, France.
62. Kyoto University and RIMS Joint Number Theory Seminar, May 14, 1993.
63. Colloquium, Hokkaido University, May 18, 1993.
64. Group Representations Seminar, University of Tokyo, May 20, 1993.
65. "Norm map in endoscopy and tempered representations of classical groups," Lecture series given in Kyoto University, May 25, 26, 27, 1993.
66. "Endoscopy and representation theory," workshop in Arithmetic Groups and Automorphic Forms, Katholische Universität Eichstätt, June 22, 1993.
67. Colloquium, Universität Hamburg, June 23, 1993.
68. "Automorphic L-functions and representation theory," four talks, Distinguished Visitors Lecture Series, University of Iowa, Iowa City, October 25-28, 1993.
69. Lie Theory Seminar, University of Michigan, Ann Arbor, November 12, 1993.
70. Geometry Seminar, University of Wisconsin, Madison, March 9, 1994.
71. Colloquium, University of Wisconsin, Madison, March 9, 1994.
72. "On the residual spectrum of symplectic groups," Workshop on L-functions and Automorphic Forms, The Fields Institute for Research in Mathematical Sciences, Waterloo, Ontario, Canada, April 11-15, 1994.
73. "On irreducibility of standard modules for generic representations," Conference on the Theta Correspondence, Dual Pairs, and Automorphic Forms, University of Maryland, College Park, May 20-22, 1994.
74. "Recent developments in the theory of automorphic L-functions," Workshop on Spectral Theory of Automorphic Forms and Number Theory, MSRI, Berkeley, October 24-28, 1994.

INVITED ADDRESSES (CONT.)

75. Colloquium, University of Chicago, December 9, 1994.
76. "L-functions and intertwining operators," Workshop on New Vistas in Automorphic Forms, MSRI, Berkeley, March 20-24, 1995.
77. "L-functions and poles of intertwining operators," Special Session on Automorphic Forms, AMS meeting, Jerusalem, Israel, May 24-26, 1995
78. "Irreducibility of standard modules for generic representations," Seminar on Reductive Groups and Automorphic Forms, University of Paris VII, June 8, 1995.
79. "An overview of Langlands program," two hours lecture at Sharif University, Tehran, Iran, July 4, 1995.
80. "Fermat's last theorem," Colloquium talk, Institute for Studies in Theoretical Physics and Mathematics (IPM), Tehran, Iran, July 11, 1995.
81. "An introduction to trace formula," Sharif University, Tehran, Iran, July 18, 1995.
82. "Automorphic L-functions and representation theory," one hour invited address at the 903rd AMS meeting, Boston, Massachusetts, October 7-8, 1995.
83. Number Theory Seminar, California Institute of Technology, February 8, 1996.
84. "Intertwining operators, L-functions, and representation theory," 12 hour lecture series given at KAIST, Korea Advanced Institute of Science and Technology's Biannual Algebra Workshop, Taejeon, Korea, July 29 - August 4, 1996.
85. "L-functions and intertwining operators," Conference on Automorphic Forms, Geometry, and Analysis on the Occasion of the 60th Birthday of Robert Langlands, Institute for Advanced Study, Princeton, New Jersey, October 9 - 12, 1996.
86. "Poles of intertwining operators - connection with prehomogeneous vector spaces," two hour lecture at Kyoto University, February 10, 1997.
87. "Poles of intertwining operators - the infinite orbit case and L-functions," two hour lecture at Kyoto University, February 17, 1997.
88. Algebra Seminar, Kyushu University, Fukuoka, February 18, 1997.
89. "Applications of local L-functions-irreducibility of standard modules for generic representations," two hour lecture at Kyoto University, February 24, 1997.
90. Colloquium, California Institute of Technology, April 22, 1997.
91. Number Theory Seminar, UCLA, June 3, 1997.

INVITED ADDRESSES (CONT.)

92. Number Theory Seminar, California Institute of Technology, June 12, 1997.
93. Group Representations Seminar, University of Maryland, October 29, 1997.
94. "Holomorphy of symmetric cube L-functions for $GL(2)$," German-Israeli Workshop on p -adic aspects of the theory of automorphic representations, The Edmund Landau Center of the Hebrew University of Jerusalem, Jerusalem, February 15--20, 1998.
95. Colloquium, University of Iowa, May 14, 1998.
96. "Poles of intertwining operators via L-functions and endoscopy," Research Program Seminar, IAS/Park City Mathematics Institute, Park City, Utah, July 12 - August 1, 1998.
97. "Holomorphy of symmetric cube L-functions for $GL(2)$," International Conference on Cohomology of Arithmetic Groups, L-functions, and Automorphic Forms, Tata Institute of Fundamental Research, Bombay, India, December 28, 1998 - January 1, 1999.
98. "On the holomorphy and boundedness of certain L-functions," (4 lectures), Tata Institute of Fundamental Research, Bombay, India, January 1999.
99. IAS-Princeton-Rutgers Joint Number Theory Seminar, Princeton University, April 1, 1999.
100. "Boundedness and holomorphy of certain L-functions," Conference on recent developments in Analytic, Geometric, and Arithmetic Theory of automorphic forms, CIRM, May 10-14, 1999, Luminy/Marseille, France.
101. "Another approach to L-functions with applications: A Survey," Automorphic Forms and L-functions Seminar, Institute for Advanced Study, Princeton, New Jersey, October 19, 1999.
102. Group Representations Seminar, University of Maryland, October 27, 1999.
103. "New estimates towards the Ramanujan and Selberg conjectures for $GL(2)$," Automorphic Forms and L-functions Seminar, Institute for Advanced Study, Princeton, New Jersey, March 2, 2000.
104. Number Theory Seminar, Johns Hopkins University, March 8, 2000.
105. "New instances of functoriality," Institute of Mathematical Sciences, The University of Hong Kong, May 22, 2000.
106. "Symmetric cube for $GL(2)$," Hangzhou Conference, Zhejiang University, Hangzhou, China, May 29-June 2, 2000.
107. "Symmetric cube lift for $GL(2)$," Journées Solstice d'été 2000, Théorie des Groupes, Aspects géométriques des formes automorphes, Institute Henri Poincaré, Centre Emile Borel, Paris, June 19-24, 2000.

INVITED ADDRESSES (CONT.)

108. "New cases of Langlands functoriality," Conference for the School on Automorphic Forms on $GL(n)$, Abdus Salam International Centre for Theoretical Physics, Trieste, Italy, August 14-18, 2000.
109. "Recent developments in Langlands functoriality conjecture," Plenary Address at 31st Iranian Mathematics Conference, University of Tehran, Tehran, Iran, August 27, 2000.
110. "Boundedness of automorphic L-functions in vertical strips," Invited Address at 31st Iranian Mathematics Conference, University of Tehran, Tehran, Iran, August 29, 2000.
111. Group Theory /Lie Theory Seminar, University of Michigan, Ann Arbor, February 12, 2001.
112. Colloquium, University of Michigan, Ann Arbor, February 13, 2001.
113. "New instances of functoriality," Japan-U.S. Mathematics Institute (JAMI) Conference on Shimura Varieties and Automorphic Forms, Johns Hopkins University, Baltimore, MD, March 20-25, 2001.
114. "L-functions, converse theorems, and functoriality," Conference on Automorphic Forms: Concepts, Techniques, Applications and Influence," NSF sponsored conference at the Institute for Advanced Study, Princeton, NJ, April 4-7, 2001.
115. "Recent progress in functoriality," Plenary Address at XIV Coloquio Latinoamericano de Álgebra, Lafalda, Sierras de Córdoba, Argentina, July 31-August 10, 2001.
116. Number Theory Seminar, New York University, October 3, 2001.
117. "New correspondences in the theory of automorphic functions," Distinguished Lecture Series, Colloquium, UCLA, November 13, 2001.
118. "Applications of zeta Functions to transfer of automorphic Forms," Distinguished Lecture Series, Seminars, UCLA, November 14 and 16, 2001.
119. Colloquium, Princeton University, February 13, 2002.
120. Colloquium, Brigham Young University, April 8, 2002.
121. "Local coefficients as Mellin transforms of Bessel functions: a first step towards stability in general," Midwest Workshop on Automorphic Forms, Representation Theory and Related Subjects, University of Notre Dame, April 19-21, 2002.
122. "On a general stability for root numbers: new instances of functoriality," Conference on L-functions and Automorphic Forms in honor of Joseph Shalika's 60th Birthday, Johns Hopkins University, Baltimore, MD, May 14-17, 2002.

INVITED ADDRESSES (CONT.)

123. “Stability and functoriality,” Conference on Fonctorialité de Langlands: Progrès Récents, CIRM, Luminy/Marseille, France, June 17-28, 2002.
124. “Langlands-Shahidi method and converse theorems,” (4 lectures) Graduate Summer School, IAS/Park City Mathematics Institute, Park City, Utah, June 30-July 20, 2002.
125. “New instances of functoriality,” Satellite Conference of ICM 2002 in Number Theory, Center of Mathematical Sciences, Zhejiang University, Hangzhou, China, August 10-11, 2002.
126. “On a general stability of root numbers: towards new cases of functoriality,” Satellite Conference of ICM 2002 in Number Theory and Arithmetic Geometry, Weihai Campus, Shandong University, Weihai, China, August 13-17, 2002.
127. “Automorphic L-functions and functoriality,” International Congress of Mathematicians 2002 (ICM 2002), Section on Lie Groups and Representation Theory, Beijing, China, August 20-28, 2002.
128. Number Theory Seminar, Johns Hopkins University, October 1, 2002.
129. Colloquium, California Institute of Technology, February 20, 2003.
130. Number Theory Seminar, California Institute of Technology, February 27, 2003.
131. “On generic transfer from $GSpin$ -groups to $GL(n)$: $GSp(4)$ to $GL(4)$,” Conference on Automorphic Representations, L-functions and Applications: Progress and Prospects in honor of Steven Rallis’s 60th Birthday, Ohio State University, Columbus, March 27-30, 2003.
132. “Functoriality: From symmetric powers to non-classical groups,” Meeting on Locally Symmetric Spaces, Mathematisches Forschungsinstitut Oberwolfach, Germany, September 28-October 4, 2003.
133. “Functoriality: The cases of symmetric powers for cup forms on $GL(2)$ with applications,” Kyoto University, Kyoto, Japan, October 28, 2003.
134. “Functoriality: The cases of groups with classical L-groups and applications,” Kyoto University, Kyoto, Japan, October 30, 2003.
135. “New Cases of functoriality,” 50-minute lecture in the Special Session on Reductive Groups, Joint India-AMS Mathematics Meeting, Bangalore, India, December 17-20, 2003.
136. Analytic Number Theory Seminar, Ohio State University, April 12, 2004.
137. “On the Ramanujan conjecture,” International Conference in Memory of Armand Borel, Center of Mathematical Sciences, Zhejiang University, Hangzhou, China, July 26-30, 2004.

INVITED ADDRESSES (CONT.)

138. “Infinite dimensional groups and automorphic L-functions,” Conference in Automorphic Forms and the Trace Formula, in Honor of James Arthur’s 60th Birthday, Fields Institute, Toronto, Canada, October 13-16, 2004.
139. “Hyperbolic lattice points and the theory of automorphic forms,” Forty-Fourth Kuwait Foundation Lecture, Cambridge University, Cambridge, England, January 18, 2005.
140. Number Theory Seminar, University of Nottingham, Nottingham, England, January 19, 2005.
141. Number Theory Seminar, Cambridge University, Cambridge, England, January 20, 2005.
142. “Langlands Functoriality Conjecture” (two lectures), International Symposium on Representation Theory and Automorphic Forms, Seoul National University, Seoul, Korea, February 14-17, 2005.
143. Number Theory Seminar, University of Wisconsin, April 7, 2005.
144. Colloquium, University of Wisconsin, April 8, 2005.
145. Joseph Fels Ritt Lectures, Columbia University, April 21 and 22, 2005.
146. “Functoriality and special values of L-functions”, Workshop on Eisenstein Series and Applications, American Institute of Mathematics (AIMS), August 15-19, 2005.
147. “Stability of root numbers and analysis on certain quotient spaces”, International Conference on Recent Trends in Endoscopy and Representation Theory”, Humboldt-Universität zu Berlin, October 17-22, 2005.
148. “Langlands functoriality conjecture and special values of L-functions”, Workshop on Arithmetic Algebraic Geometry, Erwin Schrödinger International Institute for Mathematical Physics, Vienna, Austria, January 23-27, 2006.
149. Colloquium, Cornell University, March 2, 2006.
150. Lie Groups Seminar, Cornell University, March 3, 2006.
151. “Functoriality and special values of L-functions”, 30th Anniversary of Midwest Representation Theory Conference, University of Chicago, March 17-19, 2006.
152. Lie Groups Seminar, Oklahoma State University, April 13, 2006.
153. Colloquium, Oklahoma State University, April 14, 2006.
154. Arithmetic Homogeneous Spaces Seminar, Institute for Advanced Study, Princeton, April 28, 2006.

INVITED ADDRESSES (CONT.)

155. Arithmetic Applications; Session co-chaired with P. Sarnak, Workshop on Automorphic Forms and L-functions in honor of S. Gelbart's 60th Birthday, Weizmann Institute, Rehovot, Israel, May 15-19, 2006.
156. "Twisted endoscopy and L-functions", Conference on the L-group at 40, in honor of Robert Langlands 70th Birthday, Institute for Advanced Study, Princeton, October 9-10, 2006.
157. Number Theory Seminar (two lectures), Graduate Center at CUNY, February 2, 2007.
158. "On orthogonal and symplectic representations of $GL(n)$ ", Workshop on Arithmetic Algebraic Geometry, Erwin Schrödinger International Institute for Mathematical Physics, Vienna, Austria, February 11-24, 2007.
159. Group Theory/Lie Groups Seminar, University of Michigan, Ann Arbor, March 12, 2007.
160. "Functoriality and representation theory of p-adic groups", Conference in honor of C. Bushnell's 60th Birthday, King's College, London, England, June 6-8, 2007.
161. "Euler Products", Conference in Arithmetic Geometry dedicated to 300th anniversary of Euler's Birthday, Euler Institute, St. Petersburg, Russia, June 13-19, 2007.
162. "An overview of functoriality" (4 lectures), Asian Conference on Arithmetic Geometry, Korean Institute for Advanced Study (KIAS), Seoul, Korea, September 15-18, 2007.
163. "Some local consequences of functoriality" 45-minute talk at the Special Session on "Automorphic Forms: representation theory of p-adic and adelic groups", AMS Meeting at DePaul University, Chicago, October 5-6, 2007.
164. "On Harder-Mahnkopf's periods", Mathematisches Forschungsinstitut Overwolfach, Germany, February 3-9, 2008.
165. Representation Theory Seminar, University of Maryland, College Park, April 3, 2008.
166. Colloquium, University of Maryland, College Park, April 4, 2008.
167. Representation Theory Seminar, University of Chicago, April 29, 2008.
168. "Some applications of functoriality", Conference on Current Developments and Directions in the Langlands Program, Northwestern University, Evanston, May 10-14, 2008.
169. "Some applications of the functoriality conjecture", Université Paris-Sud 11, June 10, 2008.

INVITED ADDRESSES (CONT.)

170. “Some problems and results in harmonic analysis with origins in automorphic forms” 45-minute lecture in the Special Session on “Representation Theory of Real and p -adic Groups,” AMS Meeting at Western Michigan University, Kalamazoo, Michigan, October 17-19, 2008.
171. One-hour lecture at the Workshop on “Analytic Theory of $GL(3)$ -Automorphic Forms and Applications,” American Institute of Mathematics (AIMS), Palo Alto, November 17-21, 2008.
172. Colloquium, Ohio State University, December 4, 2008.
173. Analytic Number Theory Seminar, Ohio State University, December 4, 2008.
174. “A new look at some functionals appearing in automorphic forms” in Conference on “Representation Theory of Reductive Groups – Local and Global Aspects, Erwin Schrödinger Institute, Vienna, Austria, January 26-February 6, 2009.
175. Colloquium, University of Minnesota, April 16, 2009.
176. Number Theory Seminar, University of Minnesota, April 17, 2009.
177. “Langlands Functoriality”, Two 75-minute lectures in International Workshop on Number theory, IPM, Tehran, Iran, May 31-June 3, 2009.
178. “Automorphic Forms and Representation Theory”, 3 hour lectures at the workshop on Computational Theory of Real Reductive Groups, FRG workshop for the Atlas of Lie Groups and Representations project, University of Utah, July 20-24, 2009.
179. “Some generalized functionals and their Bessel functions”, in Zeta Function Days in Seoul, Yonsei University, Seoul, Korea, August 31-September 5, 2009.
180. 20-minute talk in Ilya Piatetski-Shapiro Memorial Meeting, Yale University, New Haven, September 13, 2009.
181. “Generic cusp forms of reductive groups are tempered”, in Midwest Conference on Automorphic Forms, Representation Theory, and Number Theory, University of Iowa, Iowa City, October 24-25, 2009.
182. Number Theory Seminar, Rutgers University, New Brunswick, February 9, 2010.
183. “Arthur Packets and the Ramanujan conjecture for generic cusp forms”, in Conference on Global Analysis and Automorphic Forms, in honor of the 60th birthday of Werner Mueller, Hebrew University of Jerusalem, Jerusalem, Israel, March 14-20, 2010.
184. “Arthur Packets and the Ramanujan Conjecture”, in Conference on Automorphic Forms in Arithmetic and their L-functions”, Institute Fourier, Grenoble, May 22-24, 2010.

INVITED ADDRESSES (CONT.)

185. “Arthur Packets and the Ramanujan Conjecture”, Mathematisches Forschungsinstitut Obewolfach, Germany, March 7-11, 2011.
186. Boston College – MIT Joint Number Theory Seminar, Boston College, April 12, 2011.
187. “Local Langlands correspondence and exterior of asymmetric square root numbers for $GL(n)$: An application of generalized Shalika germ expansions”, Memorial Workshop for Joseph Shalika, Johns Hopkins University, Baltimore, May 7-8, 2011.
188. “An Overview of the Theory of Eisenstein Series”, Four 80-minute lectures at FRG-RTG Workshop, University of Michigan, Ann Arbor, May 17-22, 2011.
189. “Theory of Eisenstein Series”, Four 1½ hour lectures at p -adic Workshop, Morningside Institute, Chinese Academy of Sciences, Beijing, China, June 13-21, 2011.
190. Number Theory Seminar, Tsinghua University, Beijing, June 19, 2011.
191. Lunch Number Theory Seminar, Max Planck Institute for Mathematics, Bonn, Germany, September 7, 2011.
192. “Local Langlands correspondence for GL_n and the exterior and symmetric square ε -factors”, Workshop on Automorphic Forms: Arithmetic and Geometry, Number 1, Erwin Schrödinger Institute, Vienna, Austria, January 9-23, 2011.
193. “Stability and local Langlands correspondence”, in Automorphic Forms, L-functions and Related Geometry, Conference on the Legacy of Ilya Piatetski-Shaprio, Yale University, New Haven, Connecticut, April 23-37, 2012.
194. “Stability of root numbers and LLC” and “A converse to tempered L-packets conjecture”, two talks in KIAS-POSTECH L-series workshop, POSTECH, Pohang, Korea, June 11-14, 2012.
195. “Some Arithmetic Consequences of the Theory of Eisenstein Series”, in Southern California Number Theory Day, California Institute of Technology, Pasadena, California, March 16, 2013.
196. “Modular Forms, Maass Forms and Automorphic Forms on $GL(2)$; An Introduction”, 12-hour course at the Mathematical Sciences Center, Tsinghua University, Beijing, China, July 2-18, 2013.
197. “Some Arithmetic Consequences of Eisenstein Series”, Pan Asian Number Theory Conference 2013, Vietnam Institute for Advance Study in Mathematics (VIASM), Hanoi, Vietnam, July 22-26, 2013.
198. “Arthur Packets” at Morningside Institute, Chinese Academy of Sciences, Beijing, China, September 18, 2013.

INVITED ADDRESSES (CONT.)

199. “Eisenstein Series and their constant terms”, “Constant terms and L-functions”, “L-functions and functoriality”, “On Arthur’s recent work”; 4 lectures at Xuzhou Workshop, Jiangsu Normal University, Xuzhou, China, September 20-23, 2013.
200. “Eisenstein Series and L-functions”, two hour mini-course at the Workshop: Advances in the Theory of Automorphic Forms and their L-functions, Erwin Schrödinger Institute, Vienna, Austria, October 16-25, 2013.
201. “Arthur Parameters and L-functions” ESI Workshop in honor of James Cogdell’s 60th Birthday, as a part of item 200.
202. Colloquium, University of Missouri, Columbia, Missouri, November 14, 2013.
203. “On equality of arithmetic and analytic exterior square root numbers”, in “Representations des Groupes Reductifs p -adiques et Applications”, Conference in honor of G. Henniart’s 60th Birthday, CIRM, Luminy, France, January 27-31, 2014.
204. “On the Ramanujan-Selberg conjecture”, in “Analysis, Spectra and Number Theory”, Conference in honor of Peter Sarnak’s 61st Birthday, Princeton University, Princeton, NJ, December 15-19, 2014.
205. “Ramanujan Conjecture and Automorphic Forms”, in “3rd Conference on Frontiers in Mathematical Sciences”, Institute for Research in Fundamental Sciences, Tehran, Iran, December 29, 2014-January 1, 2015.
206. “L-functions and Principle of Functoriality”, in “3rd Meeting on Contemporary Mathematics”, 5-hour short course, IPM, Tehran, Iran, January 4-5, 2015.
207. Number Theory Seminar, UNC/Duke Joint Seminar, Duke University, Durham, North Carolina, March 4, 2015.
208. “On equality of local factors for a general representation of $GL_n(\mathbb{C})$ ”, at the Workshop: “Automorphic Forms, Geometry and Arithmetic”, Erwin Schrödinger Institute, University of Vienna, May 18-22, 2015.
209. “Local Langlands correspondence and equality of local factors”, 5 lectures at the Workshop: “Number Theory and Representation Theory”, Morningside Center of Mathematics, Chinese Academy of Sciences, Beijing, China, July 16-30, 2015.
210. “On equality of local factors for a general representation of $GL_n(\mathbb{C})$ ”, 45-minute talk at the Special Session on Automorphic Forms and Representation, AMS Meeting, Loyola University, Chicago, Illinois, October 3-4, 2015.
211. “What is Functoriality?”, 90-minute talk at ICERM’s Program “Computational Aspects of Langlands Program, Fall 2015”, Brown University, Providence, Rhode Island, October 26, 2015.

INVITED ADDRESSES (CONT.)

212. Number Theory Seminar, University of Connecticut, Storrs, Connecticut, November 4, 2015.
213. “L-functions and Vinberg monoids” at the Workshop on “Automorphic Kernel Functions”, American Institute of Mathematics (AIM), San Jose, California, November 30-December 4, 2015.
214. Simon Symposium on Geometric Aspects of Trace Formula, Elmau, Bavaria, Germany, April 10-16, 2016.
215. Langenhop Public Lecture, Southern Illinois University, Carbondale, Illinois, May 16, 2016.
216. “On equality of local factors for arbitrary representation of $GL(n, \mathbb{C})$ through reciprocity”, in Conference on Geometry, Algebra, Number Theory, and their Information Technology Applications; in honor of Kumar Murty’s 60th birthday, Fields Institute, Toronto, Canada, June 13-16, 2016.
217. Colloquium. University of Illinois, Urbana-Champaign, Illinois, August 25, 2016.
218. “L-function, monoids and Bessel functions”, in “Beyond Endoscopy”, Conference in honor of Robert Langlands 80th birthday, Institute for Advanced Study, Princeton, New Jersey, September 30-October 1, 2016.
219. “Functionality and Reciprocity”, Colloquium, Ordway Distinguished Lectures, University of Minnesota, Minneapolis, Minnesota, November 10, 2016.
220. “Gamma factors and Vinberg module, Braverman-Kazhdan-Ngo’s program”, Ordway Distinguished Lectures, University of Minnesota, November 11, 2016.
221. “Normalized intertwining operators as Kazhdan-Braverman Fourier transform for doubling method”, Ordway Distinguished Lectures, University of Minnesota, November 14, 2016.
222. “L-functions and monoids”, Texas-Oklahoma Representations and Automorphic Forms (TORA) VIII, March 31-April 2, 2017.
223. “On generalized Fourier transforms in doubling method for classical groups”, Mathematisches Forschungsinstitut Oberwolfach, May 21-27, 2017.
224. On generalized Fourier transforms for standard L-functions, 45-minute talk at the Special Session on Automorphic Forms and L-functions, II, AMS Meeting, University of Buffalo, Buffalo, New York, September 15-17, 2017.
225. “On Fourier transforms of Braverman and Kazhdan” at the workshop on “Functoriality and Trace Formula”, American Institute of Mathematics (AIM), San Jose, California, December 4-8, 2017.
226. “On automorphic gamma factors”, at Automorphic Forms on Reductive Groups and their Coverings, Conference in honor of Solomon Friedberg, FIM-Institute for Mathematical Research, ETH, Zurich, June 25-29, 2018.

INVITED ADDRESSES (CONT.)

227. “Eisenstein series and L-functions”, Abel Conference in honor of Robert Langlands, IMA, Minneapolis, Minnesota, November 14-16, 2018.
228. “On multiplicativity of gamma factors”, Conference on the Langlands Program: Endoscopy and Beyond, National University of Singapore, Singapore, January 7-11, 2019.
229. “Gamma factors as distributions”, Workshop on Automorphic structures of string theory, Simons Center for Geometry and Physics, Stony Brook, New York, March 4-8, 2019.
230. Colloquium, Institute for Physics and Mathematics (IPM), Tehran, Iran, June 12, 2019.
231. “On multiplicativity of gamma factors”, 45-minute talk at the Special Session in Automorphic Forms and L-functions, AMS Sectional Meeting at UW-Madison, WI, September 14-15, 2019.

EDITORIAL

1. Editor, Forum Mathematicum, June 2011-.
2. Associate Editor, Journal of AMS, February 2009 – February 2017.
3. Editor, Journal of Representation Theory (electronic AMS journal), February 2006 - February 2015.
4. Editor, American Journal of Mathematics, August 2003-.
5. Editor, International Mathematics Research Notices (IMRN), January 2002-.
6. Associate Editor of Canadian Mathematical Society Journals (Canadian Journal of Mathematics and Canadian Mathematical Bulletin), January 2001 - December 2005.
7. Editor, Bulletin of Iranian Mathematical Society, 2004-.
8. Member of Editorial Board for Iranian International Journal of Science (IIJS) published by the University of Tehran.
9. Member of Advisory Editorial Board of Bulletin of Iranian Mathematical Society, 2011-.
10. Managing editor of a special issue of the American Journal of Mathematics in memory of Jun-ichi Igusa.
11. Editor, Journal of Iranian Mathematical Society, 2015-.

ACTIVITIES AND OUTSIDE COMMITTEES

1. Member of Organizing Committee for NSF Regional Conference and Summer Seminar on Representation Theory and Harmonic Analysis on Reductive p -adic Groups, University of Chicago, July 5-August 12, 1983. Other members were P. Kutzko (University of Iowa) and P. Sally (University of Chicago).
2. Organizer for the Conference on Automorphic Forms and L-Functions, Purdue University, March 22-24, 1985. The conference was supported by the School of Science at Purdue and NSF. Among the speakers were: J. Arthur, R. P. Langlands, and I. I. Piatetski-Shapiro. Approximately 50 outside participants attended the conference.
3. Member of the International Scientific Committee of the Program for International Cooperation in Mathematics (PICMA).
4. Member of the Advisory Panel for the NSA Mathematical Sciences Program (appointed by AMS), October 1994 - September 1997.
5. Co-organizer of the Special Session in “Automorphic Forms and Representation Theory” in the 903rd AMS meeting in Boston, Massachusetts, October 7-8, 1995. This was in conjunction with an hour invited talk titled “Automorphic L-functions and Representation Theory” at the same meeting.
6. Co-principal investigator (with Stephen Kudla of University of Maryland) for NSF grant DMS-0071404 at Purdue titled “Shimura Varieties, the Trace Formula, Congruences and Galois Representations” for \$42,000, to provide full support for U.S. graduate students and postdocs to participate in the Hecke Semester at the Institute Henri Poincaré, Paris, and summer school on Automorphic Forms at ICTP, Trieste, Italy; Feb. – August of 2000.
7. Co-organizer (with Peter Sarnak of Princeton University) of IAS/PC Mathematics Institute: “Automorphic Forms with Applications,” Park City, Utah, June 30 - July 20, 2002.
8. Co-organizer (with D. Goldberg and J-P. Labesse at Paris) of the Conference on Recent Progress in Langlands Functoriality, CIRM, Luminy, France, June 17-28, 2002.
9. Co-principal investigator (with D. Goldberg) for NSF grant at Purdue titled: “Recent Progress in Langlands Functoriality” for \$15,000 to provide support for U.S. graduate students and postdocs to participate in 8.
10. Co-organizer (with D. Ramakrishnan at Caltech and S. Zelditch at Johns Hopkins) of the Conference on L-functions and Automorphic Forms in honor of Joseph Shalika’s 60th Birthday, Johns Hopkins University, Baltimore, Maryland, May 14-17, 2002.

ACTIVITIES AND OUTSIDE COMMITTEES (CONT.)

11. Co-principal investigator (with D. Ramakrishnan and S. Zelditch) for NSF grant DMS 0206637 at Johns Hopkins titled: "L-functions and Automorphic Forms" for \$8,000 to support graduate students and non-funded participants in 10. Emissary for Clay Mathematics Institute (CMI) funding of 10 for the amount of \$9,000.
12. Co-organizer (with J. Arthur at Toronto, T. Haines at Maryland, H. Kim at Toronto, R. Murty at Queens, and G. Pappas at Michigan State) of the Special Semester on Automorphic Forms, Shimura Varieties and L-functions, Fields Institute, Toronto, Canada, January-May 2003.
13. Co-principal investigator (with G. Pappas) for NSF grant DMS-0211133 at Purdue titled: "Program on Automorphic Forms, Shimura Varieties and L-functions" for \$50,000, to provide support for U.S. postdocs and graduate students to participate in 12.
14. NSF Panel, January 2003 and November 2003.
15. Co-organizer (with David Ellwood at CMI, L. Clozel at Orsay, R. Kottwitz at Chicago and F. Murnaghan at Toronto) of the Conference on Automorphic Forms and the Trace Formula in honor of James Arthur's 60th Birthday, Fields Institute, Toronto, Canada, October 13-16, 2004.
16. Co-principal investigator (with R. Kottwitz) for Clay Mathematics Institute Funding (\$17,000) and NSF Grant DMS-0405874 (\$15,000) for funding item 15. A CND30,000 funding has already been negotiated with the Fields Institute and University of Toronto, giving a total of CND69,000 for the support of item 15.
17. Nominator for the MacArthur Fellows Program, MacArthur Foundation, 2001.
18. Co-organizer (with W. Duke, UCLA, T. Wooley, Michigan, and P. Sarnak, Princeton) of the Summer School in Number Theory at the Center of Mathematical Sciences, Zhejiang University, Hangzhou, China, August 2005.
19. Co-organizer (with V.C. Berkovich, Weizmann, D. Ginzburg, Tel Aviv, R. Howe, Yale, E. Lapid, Jerusalem, P. Sarnak, Princeton, and D. Soudry, Tel Aviv) of the Conference in honor of Stephen Gelbart's 60th Birthday, Weizmann Institute, Israel, May 15-19, 2006.
20. Co-principal investigator (with the committee in item 19) for Clay Mathematics Institute Funding (\$10,000) for item 19.
21. Co-organizer (with J. Arthur, Toronto, J. Coates, Cambridge, P. Sarnak, Princeton, M. Shahshahani, Institute for Studies in Theoretical Physics and Mathematics (IPM) of the Conference in Number Theory and Automorphic Forms, IPM, Tehran, Iran, December 2006.
22. Co-principal investigator (with the committee in item 21) for Clay Mathematics Institute funding (\$23,000) for item 21.

ACTIVITIES AND OUTSIDE COMMITTEES (CONT.)

23. Co-organizer (with C. Bushnell, Kings College, G. Henniart, Orsay, D. Mandersheid, Iowa) of the Conference on Representation Theory of p -adic Groups in honor of Philip Kutzko's 60th Birthday, October 19-22, 2006.
24. NSF Panel, December 2005
25. Member of AMS Committee on Science Policy, 2007-2010.
26. External Review Committee for Boston College, April 2008.
27. NSF Panel, January 2009.
28. Member of organizing committee for International Workshop on Number Theory, IPM, Tehran, Iran, May 31-June 3. Other members were M. Shahshahani (IPM) and M. F. Vigneras (Paris 7).
29. Member of organizing committee for Ilya Piatetski-Shapiro Memorial Meeting, Yale University, New Haven, September 13, 2009. Other members were J. Cogdell (Ohio State), R. Howe (Yale), M. Kapranov (Yale), and P. Sarnak (Princeton/IAS).
30. Member of organizing committee for the Memorial Workshop for Joseph Shalika, May 7-8, 2011. Other members were D. Ramakrishnan (Caltech), R. Takloo-Bighash (UIC), and Y. Tschinkel (NYU).
31. Member of organizing committee for the Conference in honor of Piatetski-Shapiro, Yale University, New Haven, April 23-27, 2012. Other members are J. Cogdell, S. Gelbert, R. Howe, D. Jiang, P. Sarnak, and D. Soudry.
32. Co-Principal investigator (with J. Cogdell, R. Howe, D. Jiang and P. Sarnak) for NSF grant DMS-1205036 (\$49,560) for item 31.
33. Member of organizing committee for the Workshop on Advances in the Theory of Automorphic Forms and Their L-functions, Erwin Schrödinger Institute, Vienna, Austria, October 16-25, 2013. Other members were D. Jiang (University of Minnesota), P. Sarnak (Princeton/IAS), and J. Schwermer (University of Vienna/ESI).
34. Member of organizing committee for the Xuzhou Workshop, Xuzhou, China, September 20-23, 2013. Other members were W. Casselman (University of British Columbia) and X. Yu (Jiangsu Normal University).
35. Reviewer for Review Advisory Panel for Simon Collaborative Grants, 2012.
36. Advisor to Guggenheim's Selection Panel, 2005-present.
37. ICM 2014 Number Theory Section Panel member for selection of ICM speakers (both sectional and plenary).

ACTIVITIES AND OUTSIDE COMMITTEES (CONT.)

38. NSF Panel, February 2014.
39. Nominator for the Kyoto Prize 2014 and 2018 (by invitation).
40. AMS Centennial Fellowship Committee, 2014-2016.
41. Co-organizer (with W. Casselman, University of British Columbia) of the Workshop on L-functions and Beyond Endoscopy”, Purdue University, West Lafayette, May 11-13, 2015.
42. Member of Mathematics, Applied Mathematics, and Statistics Selection Panel for American Academy of Arts and Sciences Election of 2016 and 2017 Fellows.
43. Member of Scientific Committee (with J. Cogdell, G. Harder and S. Kudla) for Conference on the Cohomology of Arithmetic Groups on the occasion of Joachim Schwermer’s 66th Birthday, Max Planck Institute, Bonn, Germany, June 6-10, 2016.
44. External Referee for European Research Council, 2016-
45. NSF Career Panel, October 2016.
46. Co-organizer (with P. Kassaei, King’s College and J. Tilouine, Université Paris 13) of the Spring School and International Conference” P-adic Aspect of Automorphic Forms”, IPM and Sharif University, Tehran, Iran, April 20-May 4, 2017.
47. Co-organizer (with J.Arthur, University of Toronto, W. Casselman, University of British Columbia, and Geir Ellingsrud, University of Oslo, representing Norwegian Academy) of the IMA Abel Conference in honor of Robert Langlands, IMA, Minneapolis, Minnesota, November 14-16, 2018.
48. NSF Panel, February 2019.
49. Nominator for the Shaw Prize 2019 and 2020 (by invitation).
50. Member of Selection Committee for CRM-Fields-PIMS Prize (Canadian Mathematical Institutes Highest Award), November 2019.

COMMITTEES

Elementary Services Committee	1984-87, 1991-93
Promotions Subcommittee	1986, 1992 (Chair), 1995, 1996, 2001, 2004, 2005 (Chair), 2006, 2009 (Chair)
Head Search Committee	1987, 2005 (Interim Head Search – Chair), 2007, 2011 (Chair), 2013
Colloquium Chairman	1987

COMMITTEES (CONT)

Personnel Committee	1988, 1989, 1991, 1992, 1994, 1998, 1999, 2000, 2002, 2004, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2014, 2015, 2016, 2017, 2018
Dean's Distinguished Professor Committee	1988 (for Louis de Branges)
College of Science Grievance Committee	1987-90, 1995-97
Campus Grievance Committee	1988-90
Campus Grievance Committee, Chair	1989-90
Graduate Students Teaching Awards Committee	1997-98, 1998 -99 (Chair)
Ad Hoc Committee on Promotion and Retention Policy	1998
TA Screening Committee	2001, 2009, 2013
Library Committee	2002-
Area Promotions Committee	2002-04, 2007-09, 2010-12, 2015-17 (alternate)
College of Science Distinguished Professors Committee On Interdisciplinary Focus Areas	2002-03
College of Science Distinguished Professors Committee	2003
University Distinguished Professors Committee	2003 (Chair), 2004 (Chair), 2007, 2009, 2013, 2015, 2018
University Faculty Scholars Selection Committee	2004-2005
Teaching Loads Committee	2005
College of Science Faculty Committee on Diversity	2005, 2006
Diversity Minorities Recruiting Committee	2005, 2006
Departmental Committee on University Faculty Scholars Selection	2007, 2014
College of Science Strategic Planning Committee (Discovery Pillar)	2008
CCAM Director Review Committee	2009-2010
Graduate Recruiting Committee	2010-
College of Science White Paper Committee on Recruitment and Retention	2012
College of Science Award Committee	2012-2015
College of Science Committee on Strategic Planning on Emerging Research Areas	Fall 2015
Dean's Distinguished Professors Advisory Committee	2015
Department's Awards Committee (Chair)	2016-2019
Head Search Committee	2019

DOCTORAL STUDENTS

Mahdi Asgari (Ph.D. 2000; Associate Professor, Oklahoma State University)
Muthukrishnan Krishnamurthy (Ph.D. 2002; Associate Professor, University of Iowa)
Xiaoxiang Yu (Ph.D. 2003; Professor, Jiangsu Normal University, Xuzhou, China)
Wook Kim (Ph.D. 2005; BK Postdoc at Yonsei University)
Rajan Sundaravaradhan (Ph.D. 2006; Assistant Professor, Amrita University, India)
Luis Lomeli (Ph.D. 2007; VIGRE Postdoc, University of Iowa, 2007-2010, Assistant Professor, Catholic University of Valparaiso, Chile, 2016-)
Qingyu Wu (Ph.D. 2008; Member at Institute for Advanced Study, Princeton, NJ, 2008-2009)

DOCTORAL STUDENTS (CONT)

- Sandeep Varma (Ph.D. 2009; Dickson Instructor, University of Chicago, 2009-2012; tenured faculty position at Tata Institute, Mumbai, India, 2012-)
 Bogume Jang (Ph.D., 2010, Northeastern University)
 T. Tsai (Ph.D. 2011, Max Planck Institute, Bonn, Germany)
 J. Lau (Ph.D. 2011, Tel Aviv University, Israel, National University of Singapore, 2013-2016, Head of Mathematics Program, SIM Univeristy, 2016-)
- K. Choi (Ph.D. 2012, Postdoc at Oklahoma State University; TT Assistant Professor, Southern Illinois University, 2015-)
 D. Belt (Ph.D. 2012, Northwestern University, University of Missouri)
 Y-S. Kim (Ph.D. 2013, University of Iowa, Assitant Professor, Chonnam National University, 2016-)
 V. Kala (Ph.D. 2014, Max Planck Institute at Bonn and University of Gottingen, Germany; Assistant Professor, Charles University in Prague, Czech Republic)
 A. Parab (Ph.D. 2018, Information Resources, Inc., Chicago)
 D. Shankman, D. She, R. Taha, W. Sokurski, J. Katz (co-advising with B. McReynolds), A. Hazeltine (Co-advising with B. Liu), (F. Hosseinijafari)

POSTDOCTORAL ADVISEES

- Magdy Assem (deceased)
 David Goldberg (Professor, Purdue University)
 Henry Kim (Professor, University of Toronto)
 Alan Roche (Professor, University of Oklahoma)
 Yuanli Zhang (CRM – visitor)
 Ralf Schmidt (Professor, University of Oklahoma)
 Dubravka Ban (Professor, Southern Illinois University)
 Dana Pascovici
 Wentang Kuo (Associate Professor - University of Waterloo)
 Volker Heiermann (Professor, Univ. Luminy, France)
 Mark McKee (Postdoc, University of Oklahoma)
 Steven Spallone (Associate Professor, Indian Institute of Science Education and Research (IISER), Pune, India)
 Marcela Hanzer (Associate Professor, University of Zagreb)
 Shuichiro Takeda (Associate Professor, University of Missouri)
 Dani Szpruch (Assistant Professor, Howard University, Washington, D.C., Open University of Israel)
 Carlos De la Mora (Visiting Assistant Professor, University of East Anglia, England)
 Hadi Hedayatzadeh (Visiting Assistant Professor, Purdue University – IPM, Tehran, Iran)
 Fan Gao (Golomb Assistant Professor, Purdue University, National University of Singapore, Zhejiang University)