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Personal

Born on Oct 27, 1969.

Married to Seong-June Kim, with two children: Yoon-Young and Joy.

Citizenship: Republic of Korea

Residence: US permanent resident.

Education

B. S. in Mathematics, Seoul National University, Korea, 1992.

Ph.D. in Mathematics, Yale University, Advisor: Gregory Margulis, 1997.

Academic Appointments

Yale University: Abraham Robinson Professor of Mathematics (2015-). Professor (2013-).

Brown University: Professor (2006-June 2013).

California Institute of Technology: Professor (2006-2007), Associate Professor with tenure (2003-2006).

Institute for Advanced Study: Member (2002-2003).

Princeton University: Assistant Professor (1999-2003).

The Hebrew University of Jerusalem: Golda Meir Postdoctoral Fellow (1998-1999).

Oklahoma State University: Visiting Assistant Professor (1997-1998).

Visiting positions

Simons visiting professor at MSRI (2015).

Harvard University, Visiting scholar (2009).

Max-Planck Institute, Bonn (2009).

Korea Institute for Advanced Study, KIAS Scholar (2008-).

Institute for Advanced Study, Princeton, Member (2006).

Issac Newton Institute, Cambridge (2000).

University of Chicago, Visiting Assistant Professor (1998).

University of Bielefeld, Visiting scholar (1998, 1997).

Academic honors

Hoam prize, 2018
Guggenheim fellow, 2017
Simons fellow, 2017
Satter Prize, 2015
Simons professorship, MSRI, 2015
Inaugural fellow of the AMS
Lady Davis Postdoctoral fellowship, 1998.

Selected invited lectures

Namoodiri Lectures, University of Chicago, April 2018.
Plenary lecture at the 3rd PRIMA Congress, Aug 2017, Mexico
Evans Lecture, University of California, Berkeley, 2015
Beatrice Yormark Distinguished Lecture Series, Stanford University, 2015
Plenary lecture at the International Congress of Women Mathematicians, Seoul, 2014
Takagi Lecture series, RIMS, Kyoto, Japan, 2013
Heilbronn Distinguished Lecture Series, University of Bristol, UK, 2013
Joint AMS-MAA invited address at 2012 Joint Mathematics meeting, Boston, 2012.
Plenary lecture at AWM's celebration of Women in Mathematics: 40 Years and Counting, 2011.
Invited lecture at International Congress of Mathematicians, Hyderabad, India, 2010.
Plenary lecture at the 1st Joint International Meeting of AMS and KMS, 2009.

Academic service

Brin Prize selection Committee (2017-2022)
AMS Colloquium Lecture Committee (2017-2020)
Director of Graduate Studies for Mathematics, Yale (2015-2017)
AMS Editorial Boards Committee (2015-2018)
AWM Nominating Committee for 2015
US delegate to the 17th IMU General Assembly, 2014.
AMS Eastern Section Program Committee (2014- 2016).
Core member of the sectional panel on Lie theory and Generalizations for 2014 ICM.
Scientific advisory board at American Institute of Mathematics (2010-2015).
AWM Travel Grant Selection committee chair, 2011

Editorial works

Journal of Number Theory, Editorial board, 2018-

Selecta Mathematica. Editorial board, 2015-

Groups, Geometry, and Dynamics. Editorial board, 2014-

MSRI Publication (Book 61) "Thin groups and Super-strong approximation", Cambridge University Press, co-edited with Breuillard.17, 2016.

Co-editor of the special issue of Quarterly Journal of Pure and Applied Math., in honor of G. Margulis, co-edited with Burger, Ji, Lubotzky and Yau.

Organizational activities

Dynamics, Geometry, and Number theory: Margulis 2016 (IHP, Paris, June 13-17), co-organized with Breuillard, Karlsson, Kleinbock, Paulin.

Geometric and Arithmetic aspects of homogeneous dynamics (MSRI one semester program, Jan-May 2015), co-organized with Kleinbock, Lindenstrauss, Quint, Salehi-Golsefidy.

Summer school on Homogeneous Dynamics (KIAS, July 2-6, 2013), co-organized with Breuillard, Kleinbock, Lim.

MSRI Hot Topics Workshop: Thin Groups and Super-strong Approximation (MSRI Feb 6-10, 2012), co-organized with Breuillard, Gamburd, Ellenberg, Kowalski.

Conference on Homogeneous flows and Arithmetic (MFO, Oberwolfach, July 4-10, 2010), co-organized with Einsiedler, Kleinbock, and Lindenstrauss.

Special session: Group Actions on Homogeneous spaces and Applications at AMS national meeting (Washington D.C., Jan 2009), co-organized with Kleinbock and Margulis.

Special session: Discrete groups, homogeneous space, rigidity at AMS sectional meeting (TX, April 2005), co-organized with Gorodnik and Monod.

Conference on Lie groups: Dynamics, Rigidity, Arithmetic, in honor of Margulis' 60th birthday (Yale, Feb 24-27, 2006), co-organized with Casson, Ellwood, Kleinbock and Lubotzky.

Other synergistic activities

Co-organizer of Group Actions and Dynamics at Yale since 2013.

Organizer of Group Actions seminar at Brown 2007-2013.

Co-organizer of Lie group seminar at Caltech for 2003-2006.

Panelist at "Empowering Women Mathematicians for Excellence" organized by AWM and KWMS, Dec 2009.

Publications and preprints

60. Geodesic planes in geometrically finite acylindrical 3-manifolds (with Yves Benoist), *Preprint*, 2018
59. Geodesic planes in the convex core of an acylindrical 3-manifold (with McMullen and Mohammadi), *Preprint*, 2017
58. Local mixing and invariant measures for horospherical subgroups on abelian covers (with Pan), *To appear in IMRN*.
57. Prime number theorems and holonomies for hyperbolic rational maps (with Winter), *Inventiones Mathematicae*, Vol 208 (2017), 401–440.
56. Geodesic planes in hyperbolic 3-manifolds (with McMullen and Mohammadi), *Inventiones Mathematicae*, Vol 209 (2017), 425–461
55. Horocycles in hyperbolic 3-manifolds (with McMullen and Mohammadi), *Geometric and Functional Analysis*, Vol 26 (2016), 961–973.
54. Invariant Radon measures of unipotent flows and products of Kleinian groups. (with Mohammadi), *Proc. Amer. Math. Soc.* Vol 146 (2018), 1469–1479
53. Fuchsian groups and compact hyperbolic surfaces (with Benoist), *L'Enseignement Mathématique*, Vol 62 (2016), 189–198.
52. Uniform congruence counting for Schottky semigroups in $SL(2, \mathbb{Z})$ (with Magee and Winter), *To appear in J. Reine Angew. Math.*.
51. Uniform exponential mixing and resonance free regions for convex cocompact congruence subgroups of $SL_2(\mathbb{Z})$ (with Winter), *Journal of the AMS*, Vol 29 (2016), 1069–1115.
49. Classification of joinings for Kleinian groups (with Mohammadi), *Duke Math. J.*, Vol 165 (2016) 2155–2223.
48. Ergodicity of unipotent flows and Kleinian groups (with Mohammadi), *Journal of the AMS.*, Vol 28 (2015), pp.531-577.
47. Eigenvalues of congruence covers of geometrically finite hyperbolic groups, *Journal of Geometric Analysis*, Vol 25 (2015), 1421–1430.
46. Matrix coefficients, counting and primes for orbits of geometrically finite groups (with Mohammadi), *Journal of the EMS.*, Vol 17 (2015), 837-897
45. Harmonic analysis, Ergodic theory and Counting for thin groups, *In "Thin groups and Super-strong approximation"*, edited by Breuillard and Oh, MSRI. Publ 61, Cambridge Univ Press, 2014.
44. Apollonian circle packings: Dynamics and Number theory, *Japanese Journal of Mathematics*, Vol 9 (2014), pp. 69–97.

43. Equidistribution and Counting for orbits of geometrically finite hyperbolic groups (with Shah), *Journal of the AMS.*, Vol 26 (2013), pp. 511-562.
42. Effective circle count for Apollonian packings and closed horospheres (with Lee), *Geometric and Functional Analysis*, Vol 23 (2013), pp. 580-621.
41. The asymptotic distribution of circles in the orbits of Kleinian groups (with Shah), *Inventiones Mathematicae*, Vol 187 (2012), pp. 1-35.
40. Apollonian circle packings and closed horospheres on hyperbolic 3-manifolds (with Kontorovich), *Journal of the AMS.*, Vol 24 (2011), pp. 603-648.
39. Dynamics on geometrically finite hyperbolic manifolds with applications to Apollonian circle packings and beyond, *Proceedings of International Congress of Mathematicians* (2010), Vol III, 1308-1331
38. Counting visible circles on the sphere and Kleinian groups (with Shah), *Geometry, topology, and dynamics in negative curvature, 272-288, LMS. Lecture Ser., 425, CUP, 2016.*
37. Limits of translates of divergent geodesics and Integral points on one-sheeted hyperboloids. (with Shah), *Israel J. Math.*, Vol 199 (2014), pp. 915-931.
36. On the distribution of orbits of geometrically finite hyperbolic groups on the boundary (with Lim), *Erg. Theory and Dyn. Syst.*, Vol 32 (2012), pp. 173-189.
35. Almost prime Pythagorean triples in thin orbits (with Kontorovich), *J. Reiner Angew. Math* , Vol 667, pp. 89-131, 2012.
34. Discrete subgroups of $SL_3(\mathbb{R})$ generated by triangular matrices (with Benoist), *Int. Math. Res. Notices*, ID 149, 2009.
33. Discreteness criterion for subgroups of products of $SL_2(\mathbb{R})$ (with Benoist), *Transformation Groups*, Vol 15, pp. 503-515, 2010.
32. Orbital counting via Mixing and Unipotent flows, *in Homogeneous flows, moduli spaces and arithmetic* Clay Math Proceedings, Vol 10, pp. 339-375, 2010.
31. Rational points on homogeneous varieties and Equidistribution of Adelic periods (with Gorodnik), *Geometric and Functional Analysis*, Vol 21 (2011), pp. 319-392.
30. Effective equidistribution on S -integral points on symmetric varieties (with Benoist), *Annales de L'Institut Fourier.*, Vol 62 (2012), pp. 1889-1942.
29. Strong wavefront Lemma and counting lattice points in sectors (with Gorodnik and Shah), *Israel J. Math.*, Vol 176 (2010), pp. 419-444.
28. Integral points of symmetric varieties and the Satake compactification (with Gorodnik and Shah), *American Journal of Math.*, Vol 131 (2009), pp. 1-57.

27. Manin's and Peyre's conjectures for rational points and Adelic mixing (with Gorodnik and Mau-courant),
Ann. Sci. Ecole Norm. Sup., Vol 41 (2008), pp. 47-97.
26. Polar decomposition for p -adic symmetric spaces (with Benoist),
Int. Math. Res. Notices, Article ID 121, (2007), 20 pages.
25. Equidistribution of rational matrices in their conjugacy classes (with Benoist),
Geometric and Functional Analysis. Vol 17 (2007), pp. 1-32.
24. Orbits of discrete subgroups on a symmetric space and the Furstenberg boundary (with Gorodnik),
Duke Math. J., Vol 139 (2007), pp. 483-525.
23. Representations of integers by an invariant polynomial and unipotent flows (with Eskin),
Duke Math. J., Vol 135 (2006), pp. 481-506.
22. Ergodic theoretic proof of equidistribution of Hecke points (with Eskin),
Erg. Theory and Dyn. Sys., Vol 26 (2006), pp. 163-167.
21. On uniform exponential growth for linear groups (with Eskin and Mozes),
Inventiones Mathematicae, Vol 160 (2005), pp. 1-30.
20. The Ruziewicz problem and distributing points on homogeneous spaces of a compact Lie group,
Israel J. Math., Vol 149 (2005), pp. 301-316 (in the special volume in honor of Furstenberg).
19. Lattice action on finite volume homogeneous spaces,
J. Korean Math., Vol 42 (2005), pp. 635-653.
18. On a problem concerning arithmeticity of discrete groups acting on $H \times \dots \times H$,
in Algebraic groups and Arithmetic, TIFR, Mumbai (2004), pp. 427-440.
17. Hardy Littlewood system and representations of integers by an invariant polynomial,
Geom. Funct. Anal., Vol 14 (2004), pp. 791-809.
16. Finiteness of compact maximal flats of bounded volume,
Erg. Theory and Dyn. System, Vol 24 (2004), pp. 217-225.
15. Equidistribution of integer points on a family of homogeneous varieties: a problem of Linnik (with Gan),
Compositio Math., Vol 136, (2003), pp. 323-352.
14. Uniform exponential growth for linear groups (with Eskin and Mozes),
Int. Math. Res. Notices, Vol 31 (2002), pp. 1675-1683.
13. Harmonic analysis and Hecke operators,
in Rigidity in Dynamics and Geometry, (2002) Springer-Verlag, pp. 363-378.
12. Hecke operators and equidistribution of Hecke points (with Clozel and Ullmo),
Inventiones Mathematicae, Vol 144 (2001), pp. 327-351.

11. Uniform pointwise bounds for matrix coefficients of unitary representations and applications to Kazhdan constants,
Duke Math. J., Vol 113 (2002), pp. 133-192.
10. Cartan decomposition subgroups of $SO(2,n)$ (with Witte),
Trans. AMS., Vol 356 (2004), pp. 1-38.
9. Compact Clifford-Klein forms of homogeneous spaces of $SO(2,n)$ (with Witte),
Geom. Dedicata, Vol 89 (2002), pp. 25-57
8. New examples of compact Clifford-Klein forms of homogeneous spaces of $SO(2,n)$ (with Witte),
IMRN, no 5 (2000), pp. 235-251.
7. Adelic version of Margulis arithmeticity theorem,
Math. Ann., Vol 321 (2001), pp. 789-815.
6. S-arithmetic properties of discrete subgroups containing lattices in horospherical subgroups,
Duke Math. J., Vol 101 (2000), pp. 209-219.
5. On discrete subgroups containing a lattice in a horospherical subgroup
Israel J. of Math., Vol 110 (1999), pp. 333-340.
4. Tempered subgroups and representations with minimal decay of matrix coefficients,
Bull. Math. Soc. France, Vol 126 (1998), pp. 355-380.
3. Arithmetic properties of some Zariski dense subgroups,
in Lie groups and Ergodic theory, Tata. Inst. Fund. Res. Stud. Math., Vol 14 (1998), pp. 151-165
2. Discrete subgroups generated by lattices in opposite horospherical subgroups,
J. of Algebra, Vol 203 (1998), pp. 621-676.
1. Discrete subgroups of $SL_n(\mathbb{R})$ generated by lattices in horospherical subgroups,
C. R. Acad. Sci. Paris, Series I, Vol 323 (1996), pp. 1219-1224.

Invited Lectures

1. Dynamics of Group actions seminar, *Yale University*, Oct 1, 1995.
2. Dynamics of Group actions seminar, *Yale University*, Oct 9, 1995.
3. Algebra seminar, *Yale University*, Oct 18, 1995.
4. Conference on Dynamical systems, *Pennsylvania State University*, Oct 21, 1995.
5. International Colloquium on Lie groups and Ergodic theory, *TIFR*, Bombay, India, Jan 7, 1996.
6. Special session on Discrete groups and Hyperbolic geometry, *AMS meeting*, New York, April 13, 1996.
7. Harmonic analysis and Number theory seminar, *Ohio State University*, Feb 20, 1997.
8. Lie group seminar, *University of Michigan*, Feb 24, 1997.

9. Conference in Ergodic theory, Geometry and Arithmetic, *ESI, Vienna*, Feb 5, 1997.
10. Lie group seminar, *Bielefeld University, Germany*, July 9, 1997.
11. Conference on Recent advances in Algebra, *KAIST, Korea*, Aug 12, 1997.
12. Lie group seminar, *Oklahoma State University, U. S. A*, Sep 10, 1997.
13. Colloquium, *Oklahoma State University*, Nov 7, 1997.
14. Special session on Lie Groups, Algebraic Groups: Their Arithmetic and Representation Theory, *AMS meeting, Manhattan, KS*, March 27, 1998.
15. Conference on Rigidity, representation and ergodic theory, *Paris*, June 19, 1998.
16. Special session on Rigidity in Geometry and Dynamics, *AMS meeting, Chicago*, Sep 14, 1998.
17. Geometry and Topology seminar, *University of Illinois at Chicago*, Sep 23, 1998.
18. Lie group seminar, *The Hebrew university of Jerusalem*, Nov 1999.
19. Geometric analysis seminar, *Technion, Haifa, Israel*, Jan 21, 1999.
20. Geometry and topology seminar, *University of Chicago*, Mar 1999.
21. Amitsur Algebra seminar, *The Hebrew University of Jerusalem*, April 1999.
22. Geometry seminar, *ETH, Zurich*, May 19, 1999.
23. Conference on Crystallographic groups and their generalizations II, *Kortrijk, Belgium*, May 28, 1999.
24. Lie group seminar, *Yale University*, Oct 7, 1999.
25. Algebra and Algebraic Geometry seminar, *Princeton University*, Nov 16, 1999.
26. Analysis seminar, *Princeton University*, Nov 22, 1999.
27. Lie group seminar, *Rutgers University*, Mar 24, 2000.
28. Workshop on Rigidity in Dynamics and Geometry, *Issac Newton Institute, Cambridge*, March 31, 2000.
29. Harmonic analysis seminar, *University of Neuchatel, Swiss*, June 14, 2000.
30. Workshop on Ergodic theory, Riemannian Geometry and Number theory, *Issac Newton Institute, Cambridge*, June 28, 2000.
31. Conference on Harmonic analysis and Representation theory of topological groups, *MFO, Oberwolfach*, July 12, 2000.
32. Dynamics of Group actions, *Yale University*, Feb 12, 2001.
33. Geometry and Topology seminar, *University of Chicago*, Feb 22, 2001.
34. IAS/Princeton joint Number theory seminar, *Princeton University*, Oct 4, 2001.
35. Semi-annual Workshop in Dynamical Systems and Related Topics, *Pennsylvania State University*, Oct 12, 2001.
36. Lie group seminar, *University of Michigan*, Nov 19, 2001.
37. Algebraic groups and Arithmetic, *Tata Institute of Fundamental Research, Mumbai, India*, Dec 18, 2001.

38. Representation seminar, *University of Maryland*, Apr 10, 2002.
39. Dynamics seminar, *University of Maryland*, Apr 11, 2002.
40. Conference on Advances in rigidity theory, *ETH, Zurich*, June 20, 2002.
41. Summer school on Automorphic forms and Applications, *Parkcity, Utah*, July 19, 2002.
42. Topology seminar, *Cornell University*, Oct 31, 2002.
43. Geometry seminar, *Brown University*, Nov 14, 2002.
44. Colloquium, *Brown University*, Nov 15, 2002.
45. Colloquium, *CalTech*, Dec 9, 2002.
46. Special Geometry seminar, *CalTech*, Dec 10, 2002.
47. Dynamics of Group actions, *Yale University*, Feb 18, 2003.
48. Colloquium, *UCLA*, Feb 27, 2003.
49. Lie group seminar, *CUNY*, April 1, 2003.
50. AMS sectional meeting on Rigidity in Dynamics, Geometry and Group theory, *New York*, April 12, 2003.
51. Conference on Ergodic properties of geometric group actions, *Max-Planck-Gesellschaft (Schloss Ringberg)*, July 2, 2003.
52. Geometry and Topology seminar, *Caltech*, Oct 31, 2003.
53. Workshop on special points in Shimura varieties, *Lorentz center, Leiden, The Netherlands*, Dec 17, 2003.
54. Representation theory seminar, *UCSD*, Mar 9, 2004.
55. Colloquium, *Rice University*, Apr 15, 2004.
56. Colloquium, *Seoul National University, Korea*, Sep 2, 2004.
57. Maryland-Pennstate Workshop on Dynamical Systems and Related Topics, *Maryland*, March 19, 2005.
58. Plenary lecture at AMS 2005 Spring Central Sectional Meeting, *Texas*, April 9, 2005.
59. Number theory seminar, *UCLA*, May 2, 2005.
60. Lie group seminar, *Caltech*, May 11, 2005.
61. Conference on Rigidity, Dynamics, and Group actions, *BIRS, Canada*, July 10, 2005.
62. Joint Lie group/Number theory seminar, *Caltech*, Oct 20, 2005.
63. Colloquium, *Brown university*, Dec 2, 2005.
64. Joint Princeton/IAS Number theory seminar, *Princeton University*, Feb 22, 2006.
65. Colloquium, *USC*, Apr 12, 2006.
66. Plenary lecture at the 3rd international workshop for Korean women in Mathematics, *Seoul*, June 26, 2006.

67. Special seminar, *Seoul National University*, June 29, 2006.
68. Special seminar, *KIAS*, June 30, 2006.
69. Brandeis-Harvard-MIT-Northeastern Joint Math Colloquium, *Brandeis University*, Sep 21, 2006.
70. Colloquium, *Yale university*, Oct 11, 2006.
71. Special seminar, *ENS., Paris*, June 2007.
72. Advanced Mini courses, Clay Mathematics Institute Summer school on Homogeneous Flows, Moduli Spaces and Arithmetic, *Pisa, Italy*, June 11-July 6, 2007.
73. Conference on Lie algebras and applications, *KIAS, Seoul, Korea*, July 30, 2007.
74. Algebra seminar, *Brown university*, Sep 17, 2007.
75. Algebra seminar, *Brown university*, Feb 4, 2008.
76. Conference on Equidistribution on homogeneous spaces, *Ohio State university*, June 10, 2008.
77. Group Actions seminar, *Brown university*, Sep 23, 2008.
78. Dynamics of Group Actions seminar, *Yale university*, Oct 6, 2008.
79. Semi-annual Workshop in Dynamical systems and Related topics, *Penn-State university*, Oct 23-26, 2008.
80. Group Actions and Automorphic forms, *Princeton university*, Dec 2, 2008.
81. Special seminar, *KIAS*, Dec 23, 2008.
82. Dynamics and Geometry seminar, *Harvard university*, Feb 18, 2009.
83. Joint COLUMBIA-CUNY-NYU Number theory seminar, *Columbia university*, Feb 19, 2009.
84. Geometry seminar, *ETH, Zurich*, March 25, 2009.
85. International conference: Dynamical Numbers: Interplay between Dynamical Systems and Number theory, *MPIM, Bonn*, July 23, 2009.
86. Dynamics and Geometry seminar, *Harvard university*, Sep 30, 2009.
87. Invited address at the first joint International meeting of the AMS and Korean Math Society, *Seoul*, Dec. 2009.
88. Colloquium, *Korea Advanced Institute of Science and Technology*, Feb 25, 2010.
89. Special seminar, *Ehwa Women's university, Seoul* May 7, 2010.
90. Colloquium, *Postech*, May 14, 2010.
91. Colloquium, *Seoul National university*, May 27, 2010.
92. Colloquium, *Chonnam National university, Gwangju*, June 25, 2010.
93. Workshop on Homogeneous Dynamics and Number theory, *MFO, Oberwolfach*, July 5, 2010.
94. Invited 45min address at International Congress of Math., *Hyderabad, India*, Aug 21, 2010.
95. Colloquium, *Yale Univesity*, Nov 3, 2010.

96. Colloquium, *Brown University*, Nov 17, 2010.
97. Workshop on Discrete methods in ergodic theory *Evanston, IL*, Feb 25, 2011
98. Spring 2011 Meeting of the Workshop on Dynamical Systems and Related Topics with a special session in honor of Mike Boyle on his 60th birthday *Maryland*, April 3, 2011
99. MIT Number theory seminar, May 3, 2011
100. Conference on Ergodic Geometry, Orsay, France, May 25, 2011
101. 40 Years and Counting: AWM's celebration of Women in Mathematics, *Providence, RI*, Sep 17-18, 2011
102. Workshop on Dynamics and Number Theory, *ESI, Vienna*, Oct 14, 2011
103. Joint seminar of Geometry/Topology and Group Actions, *Brown University*, Oct 19, 2011
104. Joint AMS-MAA address at 2012 Joint Mathematics meetings, *Boston, MA*, Jan 4-7, 2012
105. Lecture series on MSRI Hot Topics workshop on Thin Groups and Super-strong approximation, Feb 6-10, 2012
106. Special Topology/Number theory seminar, *UT Atstin*, March 26, 2012
107. 50th Topology Festival, *Cornell*, May 4-7, 2012
108. Colloquium at University of Michigan, *Ann Arbor*, Sep 25, 2012
109. AGNES (Algebraic Geometry Northeastern Series), *Providence*, Oct 27, 2012
110. Number theory seminar, *EPFL, Lausanne, Swiss*, Mar 14, 2013
111. The 10th edition of Number Theory Days *EPFL, Lausanne, Swiss*, Mar 15, 2013
112. Heilbronn Distinguished Lecture Series, *University of Bristol, UK*, March 25-27, 2013
113. Dynamics on Homogeneous spaces and Applications (Conference in honour of Margulis), Lyon (France), June 12-14, 2013
114. Fields medal symposium in honour of Lindenstrauss, The Fields Institute, Toronto, Sep 30-Oct 3, 2013
115. Conference on Homogeneous dynamics, Unipotent flows and Applications, in honor of Marina Ratner, *Hebrew University, Israel*, Oct 13-17, 2013
116. The 13th Takagi Lectures, *RIMS, Kyoto*, Nov 16-17, 2013
117. Inauguration ceremony for Center for Mathematical Challenges, *Seoul* Nov 19, 2013
118. Colloquium, Seoul National University, *Seoul*, Nov 21, 2013
119. Lecture series at the 3rd Young Geometric Group Theory Meeting, *CIRM, Luminy, France*, Jan 20-24, 2014.
120. Lecture series at RTG workshop on Thin groups at University of Michigan, April 25-27, 2014.
121. Lecture series at the 7th European Women in Mathematics Summer School on Apollonian circle packings, *Institut Mittag-Leffler*, June 23-27, 2014.

122. Number theory seminar, Postech, *Pohang, Korea*, July 9, 2014.
123. Plenary lecture at International Congress of Women Mathematicians, *Seoul*, Aug 12-13, 2014.
124. Joint COLUMBIA-CUNY-NYU Number theory seminar, *New York*, Oct 9, 2014
125. Lecture series at the Introductory workshop of the MSRI program on Geometric and Arithmetic aspects of homogeneous dynamics, Feb 2-3, 2015
126. Conference on Zariski dense groups, IPAM, Feb 9, 2015
127. Beatrice Yormark Distinguished Lecture Series, *Stanford University*, Feb 12, 2015
128. Colloquium at Princeton University, *Princeton*, March 4, 2015
129. Evans Lecture, University of California, Berkeley, April 27, 2015
130. Conference on Advances in homogeneous dynamics, MSRI, May 11, 2015
131. Group actions and Dynamics seminar, *Yale University*, Feb 8, 2016
132. Conference on Fractal geometry, Hyperbolic dynamics, and Thermodynamical formalism, *Icerm, Providence*, March 7, 2016
133. Workshop on Thin groups and Super-approximation, *IAS Princeton*, March 28, 2016
134. Colloquium, *Stony Brook University*, April 7, 2016
135. Fields medal symposium in honour of Bhargava, The Fields Institute, Toronto, Nov 1, 2016
136. Colloquium, *New York University*, Nov 21, 2016
137. Group actions and Dynamics seminar, *Yale University*, Feb 6, 2017
138. Plenary lecture at the 3rd PRIMA Congress, *Oaxaca, Mexico* Aug 2017
139. Clay research conference, *Oxford, UK*, Sep 2017
140. Geometry and Topology seminar, *Yale University*, Oct 10, 2017
141. Namboodiri lecture series, *University of Chicago*, April 16-18, 2018
142. 2 Colloquium lectures, *University of Rochester*, April 26-27, 2018
143. Thin groups in Number theory, Geometry and Topology, *Rice university*, May 14-18, 2018
144. The mathematical legacy of Maryam Mirzakhani, *Stanford University*, May 18-20, 2018