Sundaram Thangavelu

Curriculum Vitae

Department of Mathematics,
Indian Institute of Science,
Bangalore-560 012, India
✆ +918277397409
✉ veluma@iisc.ac.in
🖥 www.math.iisc.ac.in/ veluma

Education

1983-1987	**M.A. and Ph.D. in Mathematics**, Princeton University, Princeton, U.S.A.
1978-1980	**M.Sc. in Mathematics**, Madras University, Madras, India.
1975-1978	**B.Sc. in Mathematics**, Madras University, Madras, India.

Research Interests

- **Harmonic Analysis and Partial Differential Equations**

Awards & Fellowships

1996	**B. M. Birla Science Prize**.
1997	**Fellow of Indian Academy of Sciences**.
2002	**S. S. Bhatnagar Award in Mathematics**.
2007	**Fellow of Indian National Science Academy**.
2008-22	**J. C. Bose National fellowship**.

Other Academic Honors

2007-09	**Adjunct Distinguished Professorship**, HRI, Allahabad.
2017	**Mathematician of the year award**, Ponnala Foundation.
2018	**V. V. Narlikar Memorial lecture award**, INSA.
2020-22	**Adjunct Faculty**, IISER, Bhopal.
2021	**Alumni Award for Excellence in Research**, IISc.

Research and Teaching Experiences

1987- 1993	**Research Associate/Fellow/Reader**, T.I.F.R Center, Bangalore.
1993- 2005	**Professor**, Indian Statistical Institute, Bangalore.
2005-	**Professor**, Indian Institute of Science, Bangalore.

Visiting positions

1991-1992	**Assistant Professor**, Cornell University, Ithaca, U.S.A.
1996- 1997	**Associate Professor**, University of New Mexico, Albuquerque, U.S.A.
2003-2004	**Research Professor**, University of Oregon, Eugene, U.S.A.

Short Academic Visits

- Lund University, Sweden, 1992
- Brock University, Canada, 1994, 2000
- Technion, Haifa, Israel, 1999
- University of Bergamo, Italy, 2001
- University of New South Wales, Sydney, Australia, 2003
- Hausdorff Institute for Mathematics, Bonn, Germany, 2007
- Institute Elie Cartan, Nancy, France, 2010
- Universidad de La Rioja, Logronyo, Spain, 2015
- Guangzhou University, Guangzhou, China, 2017
- Mathematisches Forschunginstitut Oberwolfach, 2017
- Basque Center for Applied Mathematics, Bilbao, Spain, 2018

Students supervised

1996 **P. K. Ratnakumar**, I.S.I., Professor, HRI.

2000 **E. K. Narayanan**, I.S.I, Professor, IISc.

2006 **Sanjay Parui**, I.S.I, Associate Professor, NISER.

2012 **Rahul Garg**, I.I.Sc, Asst. Professor, IISER-Bhopal.

2012 **Jotsaroop Kaur**, I.I.Sc, Asst. Professor, IISER-Mohali.

2013 **P. K. Sanjay**, I.I.Sc, Asst. Professor, NIT-Calicut.

2015 **Pradeep Boggarapu**, I.I.Sc, Asst. Professor, BITS-Goa.

2015 **Sayan Bagchi**, I.I.Sc, Asst. Professor, IISER-Kolkata.

2020 **Sourav Hait**, I.I.Sc.

2021 **Rakesh Kumar**, I.I.Sc.

2022 **Pritam Ganguly**, I.I.Sc.

Academic Services- Membership of Editorial Boards

- Journal of Fourier Analysis and applications (2019-)
- Proc. Ind. Acad. Sci. (Math. Sci.) (2018-2021)
- Journal of Ramanujan Mathematical Society (2011-)
- Journal of Analysis (Forum d'Analysts) (2010-)
- Birkhauser Book Series on Pseudodifferential operators: theory, applications and related topics (2008-2018)
- Journal of Pseudo-differential operators and applications (Birkhauser) (2010-2018)
- Indian J. Pure. Appl. Math. (2012-2013)
- Tunisian Journal of Mathematics (2018-2020)

Academic Services-Memberships of Academic Committees

- Sectional committee, Indian Academy of Sciences (2007-2009)
- Sectional committee, Indian National Science Academy, (2008-2010)
- Council, Indian National Science Academy, (2012-2014)
- Mathematical Sciences Research Committee, CSIR (2008- 2010)
- Expert Panel, Fast Track Scheme for Young Scientists, DST (2009-2015)
- Program Advisory Committee (Math.), SERB (2021-)

Preprints/Accepted for publication

- Beurling's theorem on the Heisenberg group, **Ark. Mat.** (to appear)
- (with Pritam Ganguly) Analogues of theorems of Chernoff and Ingham on the Heisenberg group, **J. d'Analyse Math.** (to appear)
- (with Pritam Ganguly and Ramesh Manna) An extension problem, trace Hardy and Hardy's inequalities for the Ornstein-Uhlenbeck operator, **Analysis and PDE** (to appear)
- (with Sayan Bagchi, Pritam Ganguly and Jayanta Sarkar) On theorems of Chernoff and Ingham on the Heisenberg group (2020)
- Segal-Bargmann transform and holomorphic Sobolev spaces of fractional order (2020)
- (with Luz Roncal) Holomorphic extensions of eigenfunctions on NA groups (2020)
- A note on fractional powers of the Hermite operator (2018)
- (with Pradeep Boggarapu) Revisiting Riesz transforms for Hermite and Special Hermite Operators (2013)
- Hardy's theorem for compact Lie groups (2013)
- (with R. Lakshmi Lavanya) Mixed norm estimates for Hermite multipliers (2013)
- (with Ron Kerman) Weighted norm inequalities for the Abel means of Hermite and special Hermite expansions (preprint).

Publications

2022 .

- (with Pritam Ganguly) An uncertainty principle for spectral projections on rank one symmetric spaces of noncompact type, **Ann. Math. Pura. Appl.** (4) 201 (2022), no. 1, 289-311
- (with Pritam Ganguly and Ramesh Manna) On a theorem of Chernoff for Riemannian symmetric spaces of rank one, **J. Funct. Anal.** 282 (2022), no. 5, Paper No. 109351.

2021 .

- (with Pradeep Boggarapu and Rakesh Balhara) An extension problem and Hardy type inequalities for the Grushin operator, in *Geometric aspects of harmonic analysis*, 1-28, Springer INdAM Ser., 45, Springer, Cham, 2021.

- (with Divyang G. Bhimani, Ramesh Manna, Fabio Nicola and Ivan Trapasso) Phase space analysis of the Hermite semigroup and applications to nonlinear global well-posedness, **Adv. Math.** 392 (2021), Paper No. 107995, 18 pp.
- (with Pritam Ganguly) Theorems of Chernoff and Ingham for certain eigenfunction expansions, **Adv. Math.** 386 (2021), Paper No. 107815, 31 pp.
- (with S. Bagchi, S. Hait and L. Roncal) On the lacunary spherical maximal function on the Heisenberg group, **New York J. Math.** 27 (2021), 631âĂŞ675.
- (with Riju Basak and Rahul Garg) Homogeneous Fourier and Weyl multipliers on Sobolev spaces related to the Heisenberg group, **J. Funct. Anal.**, 281 (2021), no. 8, Paper No. 109154, 45 pp.
- (with Pritam Ganguly) On the lacunary spherical maximal function on the Heisenberg group, **J. Funct. Anal.** 280 (2021), no. 3, Paper No. 108832, 32 pp.

2020 .

- (with Luz Roncal) An extension problem and trace Hardy inequality for sublaplacian on H-type groups, **Int. Math. Res. Not. IMRN** (2020), no. 14, 4238-4294.

2019 .

- (with Pradeep Boggarapu and Luz Roncal) On extension problem, trace Hardy and Hardy's inequalities for some fractional Laplacians, **Comm. in Pure and Applied Analysis,** 18 (2019), no. 5, 2575-2605.
- (with Rakesh Balhara and Divyang Bhimani) Hermite multipliers on modulation spaces, *Analysis and Partial Differential Equations: Perspectives from Developing Countries*, Springer Proc. in Math. and Stat. Vol. 275 (2019), 42-64.

2018 .

- (with Sayan Bagchi) Weighted norm inequalities for Weyl multipliers and some applications, **J. d'Analyse Math.** 136 (2018), 1-29.
- (with Oscar Ciaurri and Luz Roncal) Hardy-type inequalities for fractional powers of the Dunkl–Hermite operator, **Proc. Edinburg Math. Soc.** 61 (2018), 513- 544.
- (with Ali Baklouti) Hardy and Miyachi theorems for Heisenberg motion groups, **Nagoya J. Math.** (2018), 1-20.
- (with venku Naidu Dogga) $L^p - L^2$ estimates for solutions of the wave equation associated to the Grushin operator, **Adv. Pure and Appl. Math.** 9 (2018), 85-92.
- An analogue of Pfannschmidt's theorem for the Heisenberg group, **J. Anal.** 26 (2018), 235-244.

2017 .

- (with Pradeep Boggarapu and Luz Roncal) Mixed norm estimates for the Cesaro means associated with Dunkl-Hermite expansions, **Trans. Amer. Math. Soc.** 369 (2017), no. 10, 7021-7047.

- (with Pradeep Boggarapu) On the chaotic behavior of the Dunkl heat semigroup on weighted L^p spaces, **Israel J. Math.** 217(1) (2017), 57-92.

2016 .

- (with Luz Roncal) Hardy's inequality for fractional powers of the sublaplacian on the Heisenberg group, **Adv. Math.** 302 (2016), 106-158.

- (with Pradeep Boggarapu) Mixed norm estimates for the Riesz transforms on $SU(2)$, **Publ. Mat.** 60 (2016), no. 1, 171-190.

2015 .

- (with Sayan Bagchi) On Hermite pseudo-multipliers, **J. Funct. Anal.** 268 (2015), 140-170.

- (with Pradeep Boggarapu) Mixed norm estimates for the Riesz transforms on the Heisenberg group, **Monatsh. Math.** 178 (2015), no. 3, 361-388.

- (with Pradeep Boggarapu) Mixed norm estimates for the Riesz transforms associated to Dunkl harmonic oscillators, **Ann. Math. Blaise Pascal** 22 (2015), no. 1, 89-120

- (with R. Garg) Variations on a theorem of Beurling, **Adv. Pure Appl. Math.** 6 (2015), 135-146.

2014 .

- (with K. Jotsaroop), L^p estimates for the wave equation associated to the Grushin operator, **Ann. Scuola Norm. Sup. Pisa** (5) Vol. XIII (2014), 775-794

- (with P. K. Sanjay), Dimension free boundedness of Riesz transforms for the Grushin operator, **Proc. Amer. Math. Soc.** 142 (2014), no. 11, 3839-3851.

- (with R. Lakshmi Lavanya), Revisiting the Fourier transform on the Heisenberg group, **Publ. Mat.** 58 (2014), no. 1, 47-63.

2013 .

- (with R. Radha and Venku Naidu) On the images of sobolev spaces under the heat kernel transform on the Heisenberg group, **Math. Nach.** 286 (2013), 1337-1352.

- (with Salem Ben Said and Venku Naidu) Uniqueness of solutions to the Schrodinger equation on H-type groups, **J. Australian Math. Soc.** 95 (2013), 1-18.

- (with K. Jotsaroop and P. K. Sanjay) Riesz transforms and multipliers for the Grushin operator, **J. d'Analyse Math.** 119 (2013), 255-273.

2012 .

- (with P. K. Sanjay) Revisiting Riesz transforms on Heisenberg groups, **Revist. Mat. Ibero.** 28 (2012), no. 4, 1091-1108

- (with S. Parui and P. K. Ratnakumar) Analyticity of the Schrodinger propagator on the Heisenberg group, **Monatsh. Math.** 168 (2012), no. 2, 279-303.

- (with Aparajita Dasgupta) Heat kernel transform on nilmanifolds associated to H-type groups, **Tohoku Math J.** (2) 64 (2012), no. 3, 439-451.

- (with Rahul Garg) On the structure of analytic vectors for the Schrodinger representation, **Monatsh. Math.** 167 (2012), no. 1, 61-80.

- (with R. Lakshmi Lavanya), A characterisation of the Fourier transform on the Heisenberg group, **Ann. Funct. Anal.** 3 (2012), no. 1, 109-120.

- (with R. Lakshmi Lavanya), A characterisation of the Weyl transform, **Adv. Pure Appl. Math.** 3 (2012), no. 1, 113-122.

2011 .

- (with K. Jotsaroop), Toeplitz operators with special symbols on Segal-Bargmann spaces, **Integral Equations Operator Theory** 69 (2011), no. 3, 317-346.

- A Paley-Wiener theorem for some eigenfunction expansions, **Adv. Pure Appl. Math.** 2 (2011), no. 3-4, 451-466.

2010 .

- (with L. Brandolini, G. Gigante and G. Travaglini), Convolution operators defined by singular measures on the motion group, **Indiana Univ. Math. J.** 59 (2010), no. 6, 1935-1945.

- On the unreasonable effectiveness of Gutzmer's formula, **Contemp. Math.** 505 (2010), 199-217.

- (with Rahul Garg) On the Hermite expansions of functions from the Hardy class, **Stud. Math.** 192 (2010), 177-195.

- (with A. Baklouti), Variants of Miyachi's theorem for nilpotent Lie groups, **J. Australian Math. Soc.** 88 (2010), 1-17.

2009 .

- (with R. Radha), Holomorphic Sobolev spaces, Hermite and special Hermite semigroups and a Paley-Wiener theorem for the windowed Fourier transform, **J. Math. Anal. Appl.** 354 (2009), 564-574.

- Hermite-Sobolev spaces and the Feichtinger's algebra, **J. Anal.** 17 (2009), 101-106.

- (with S. Parui) On theorems of Beurling and Hardy for certain step two nilpotent Lie groups, **Integral transforms and Special functions** 20 (2009), 127-145.

2008 .

- (with B. Kroetz and Y. Xu) Heat kernel transform for nilmanifolds associated to the Heisenberg group, **Revista Math. Ibero.** 24 (2008), 243-266.

- An analogue of Gutzmer's formula for Hermite expansions, **Stud. Math.** 185 (2008), 279-290.

- (with B. Rajeev) Probabilistic representations of solutions of the forward equations, **Potential Analysis** 28 (2008), 139-162.

2007 .

- Holomorphic Sobolev spaces associated to compact symmetric spaces, **J. Funct. Anal.** 251(2007), no. 2, 438-462.

- A Paley-Wiener theorem for the inverse Fourier transform on some homogeneous spaces, **Hiroshima Math. Journal**, 37(2007), no.2, 145-159

- Gutzmer's formula and Poisson integrals on the Heisenberg group, **Pacific J. Math.** 231 (2007), no.1, 217-237.

- (with S. Parui) Variations on a theorem of Cowling and Price with applications to nilpotent Lie groups, **J. Austr. Math. Soc.** 82 (2007),no. 1, 11-27.
- (with Y. Xu) Riesz transforms and Riesz potentials for the Dunkl transform, **J. Comp. and Appl. Math.** 199 (2007),181-195.
- (with R. Sarkar) An analogue of the Wiener Tauberian theorem for the Heisenberg motion group, **J. Indian Inst. of Science**, 87(2007), 467-474.

2006 .

- Poisson transform for the Heisenberg group and eigenfunctions of the sublaplacian, **Math. Ann.** 335, 879-899 (2006).
- (with E.K.Narayanan) A spectral Paley-Wiener theorem for the Heisenberg group and a support theorem for the twisted spherical means on C^n, **Ann. Inst. Fourier (Grenoble)** 56 (2006),459-473.

2005 .

- (with B. Krotz and Y. Xu) The heat kernel transform for the Heisenberg group, **J. Funct. Anal.** 225 (2005), 301-336.
- (with Y. Xu) Convolution operator and maximal function for the Dunkl transform, **J. d'Analyse Math.** 97 (2005), 25-55.
- (with R.P.Sarkar) On theorems of Beurling and Hardy for the Euclidean motion group, **Tohoku Math J.** 57(3) (2005).

2004 .

- (with E. K. Narayanan) An optimal theorem for the spherical maximal operator on the Heisenberg group, **Israel J. Math.** 144(2004),211-219.
- On theorems of Beurling, Gelfand-Shilov and Hardy for semisimple groups, **Publi. RIMS** Vol. 40 (2004), 311-344.
- (with R.Radha) Hardy's inequalities for Hermite and Laguerre expansions, **Proc. Amer. Math. Soc.** 132 (2004),3525-3536.
- (with R.Radha) Multipliers for Hermite and Laguerre Sobolev spaces, **J. Analysis**, Vol.12 (2004),183-191.

2003 .

- On Paley-Wiener and Hardy theorems for NA groups, **Math. Z.** 245 (2003), 483-502.
- (with B. Rajeev) Probabilistic representations of solutions to the heat equation, **Proc. Indian Acad. Sci.** 113 (2003), 321-332.
- (with C. Smitha) On Strichartz's uncertainty inequality on the Heisenberg group, **Tohoku Math. J.** 55 (2003), 451-466.
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2002 .

- Revisiting Hardy's theorem for the Heisenberg group, **Math.Z** 242 (2002), 761-779.
- Hardy's theorem for the Helgason Fourier transform on rank one symmetric spaces, **Colloq. Math.** 94 (2002), 263-280

2001 .

- (with G. Sajith) On the injectivity of twisted spherical means, **Israel J. of Math.** 122 (2001), 79-92.
- An analogue of Hardy's theorem for the Heisenberg group, **Colloq. Math.** 87 (2001),137-145.
- (with E.K. Narayanan) Oscillating multipliers on the Heisenberg group, **Colloq. Math.** 90 (2001), 37-50.
- (with E.K. Narayanan) On injectivity sets for the spherical means on the Heisenberg group, **J. Math. Anal. and Appl.** 263 (2001), 565-579.
- (with E.K. Narayanan) Oscillating multipliers for some eigenfunction expansions, **J. Fourier Analysis and Applications**, 7 (2001), 373-394.
- (with E.K. Narayanan) On the equisummability of Fourier and Hermite expansions, **Proc. Ind. Acad. Sci.** 111 (2001), 95-106.

2000 .

- Local ergodic theorems for K-spherical averages on the Heisenberg group, **Math. Z.** 234 (2000), 291-312.
- Some remarks on Bochner-Riesz means, **Colloq. Math.** 83 (2000), 217-230.

1998 .

- Hermite and special Hermite expansions revisited, **Duke J. Math.** 94 (1998), 257-278.
- (with P.K. Ratnakumar) Spherical means, wave equation and Hermite- Laguerre expansions, **J. Funct. Anal.** 154 (1998), 253-290.
- (with R. Radha) Weyl multipliers for invariant Sobolev spaces, **Proc. Indian Acad. Sci.** 108 (1998), 31-40.

1997 .

- (with A. Nevo) Pointwise ergodic theorems for radial averages on the Heisenberg group, **Adv. Math.** 127 (1997) 307-334.
- (with Rama Rawat and P.K. Ratnakumar) A restriction theorem for the Heisenberg motion group, **Studia Math.** 126(1) (1997), 1-12.
- On Paley-Wiener properties of the Heisenberg group, **Current Science**, 73(6) (1997), 519-522.

1996 .

- (with J. Peetre and N-O. Wallin) Generalised Fock spaces, abstract interpolation multipliers and circle geometry, **Revist. Math. Ibero.** Vol. 12 (1996), 63-110.
- (with P.K. Ratnakumar) Analogues of Besicovitch-Wiener theorem for the Heisenberg group, **J. Fourier Anal. and Appl.** 2 (1996), 407-414.
- (with V. Pati, A. Sitaram and M. Sundari) Eigenfunction expansions and the uncertainty principle, **J. Fourier Anal. and Appl.** 2 (1996), 427-433.

1995 .

- Mean periodic functions on phase space and the Pompeiu problem with a twist, **Ann. Inst. Fourier.** Vol. 45 (1995), 1007-1035.

- (with A. Sitaram and M. Sundari) Uncertainty principles for some locally compact groups, **Proc. Ind. Acad. Sci.** 105 (1995) 135-151.

1994 .

- On spherical means and CR functions on the Heisenberg group, **J. d'Analyse. Math.** Vol. 63 (1994), 255-286.
- A Paley-Wiener theorem for step two nilpotent Lie groups, **Revist. Math. Ibero.** Vol. 10 (1994), 177-187.

1993 .

- On Paley-Wiener theorems for the Heisenberg group, **J. Funct. Anal.**115 (1993), 24-44.
- A note on a transplantation theorem of Kanjin and multiple Laguerre expansions, **Proc. Amer. Math. Soc.**119 (1993), 1135-1145.
- Hermite expansions on R^n for radial functions, **Proc. Amer. Math. Soc.** 118 (1993), 1099-1102.
- On conjugate Poisson integrals and Riesz transforms for Hermite expansions, **Colloq. Math.** 64 (1993) 103-113.
- On regularity of twisted spherical means and special Hermite expansions, **Proc. Ind. Acad. Sci.** 103 (1993), 303-320.

1992 .

- Transplantation, summability and multipliers for multiple laguerre expansions, **Tohoku Math.** J. 44 (1992), 279-298.

1991 .

- Restriction theorems for the Heisenberg group, **J. Reine Angew. Math.** 414 (1991), 51-65.
- Spherical means on the Heisenberg group and a restriction theorem for the symplectic Fourier transform, **Revist. Mat. Ibero.** 7 (1991), 135-155.
- Weyl multipliers, Bochner-Riesz means and special Hermite expansions, **Ark. Mat.** 29 (1991), 307-321.
- Some restriction theorems for the Heisenberg group, **Stud. Math.** 99 (1991), 11-21.
- A multiplier theorem for the sublaplacian on the Heisenberg group, **Proc. Ind. Acad. Sci.**101 (1991), 1-9.

1990 .

- Littlewood-Paley-Stein theory on C^n and Weyl multipliers, **Revist. Mat. Ibero.** 6 (1990), 75-90.
- Hermite expansions on R^{2n} for radial functions, **Revist. Mat. Ibero.** 6 (1990), 61-74.
- On almost every where and mean convergence of Hermite and Laguerre expansions, **Colloq. Math.** 60 (1990), 21-34.
- Riesz transforms and wave equation for the Hermite operator, **Comm. P.D.E.** 15 (1990), 1199-1215.
- Some uncertainty inequalities, **Proc. Ind. Acad. Sci.** 100 (1990), 137-145.

- Multipliers for the Weyl transform and Laguerre expansions, **Proc. Ind. Acad. Sci.** 190 (1990), 9-20.
- Riesz means for the sublaplacian on the Heisenberg group, **Proc. Ind. Acad. Sci.** 100 (1990), 147-156
- Summability of Laguerre expansions, **Analysis. Math.** 16 (1990), 303-315.

1989 .

- Summability of Hermite expansions I, **Trans. Amer. Math.** Soc. 314 (1989), 119-142.
- Summability of Hermite expansions II, **Trans. Amer. Math.** Soc. 314 (1989), 143-170.

1987 .

- Multipliers for Hermite expansions, **Revist. Mat. Ibero.** 3 (1987), 1-24.

1985 .

- (with Adimurthi) Composition of variable coefficient singular integral operators, **Proc. Ind. Acad. Sci.** 94 (1985), 1-22.

Monographs/Survey Articles

1993 **Lectures on Hermite and Laguerre expansions**, *Math. Notes No. 42*, Princeton Univ. press, Princeton.

1998 **Harmonic analysis on the Heisenberg group**, *Progr. Math. Vol. 159*, Birkhauser, Boston.

2004 **An Introduction to the uncertainty principle: Hardy's Theorem on Lie groups**, *Progr. Math. Vol. 217*, Birkhauser, Boston.

2005 **Hardy's theorem: A survey**, *Advances in Analysis*, Proc. 4th ISAAC congress, Ed. H. G. W. Begehr et al, World Scientific, Singapore, 39-70.

2009 **Gutzmer's formula and the Segal-Bargmann transform**, *Perspectives in Mathematical Sciences II*, Eds. N.S.N. Sastry, T.S.S.R.K. Rao, M. Delampady and B. Rajeev, World Scientific, Singapore, pp. 209-222.

2009 **Harmonic Analysis on Heisenberg nilmanifolds**, *Revista de la Union Matematica Argentina 50, 71-89*, CIMPA Lecture Notes.

2012 **Hermite and Laguerre semigroups: some recent developments**, *Seminaires and Congres 25, 251-284*, CIMPA Lecture Notes.

Edited works

2003 **(with M. Krishna and R. Radha) Wavelets and their applications**, *Allied Publishers*, Chennai.

2012 **Collected works of S. Minakshisundaram**, *Ramanujan Mathematical Society*, Mysore.

Recent conferences/Workshops/Invited talks

- International conference on Fourier Anaysis and wavelets, Ramanujan Institute, Chennai, March 21-25, 2017.

- Probabilistic Approach to Harmonic Analysis, Wuhan University, Wuhan, China, May 18-22, 2017.
- Research in Pairs, Oberwolfach, Germany, June 4-17, 2017.
- Third summer school on Harmonic Analysis and Partial Differential Equations, BCAM, Bilbao, Spain, July 10-21, 2017.
- Analysis and applications, Conference in honour of Eli Stein, Wroclaw University, Wroclaw, Poland, September 4-8, 2017.
- Research in Groups, Special trimester on Orthogonal poilynomials and special functions, ICMAT, Madrid, Spain, October 16-28, 2017.
- Science Academies Lecture Workshop, Areacode, Dec. 6-7, 2017.
- ATM School in Harmonic Analysis, I.I.Sc., Bangalore, Dec. 11-16, 2017.
- 15th Discussion Meeting in Harmonic Analysis, I.I.Sc., Bangalore, Dec. 18-2, 2017.
- Nonlocal interactions in partial differential equations and geometry, Institut Mittag-Leffler, Sweden, May 21- 25, 2018.
- Probablity and Analysis, Bedlewo, Poland, May 20-24, 2019.
- 16th Discussion Meeting in Harmonic Analysis, IISER-Bhopal, Dec. 16-19, 2020.
- Pseudo-differential Conference, Ghent University, July 7-8, 2020.
- Noncommutative Conference, Ghent University, Belgium, Aug. 18-29, 2020.
- Operator Theory and Harmonic Analysis, 13th ISAAC Congress, Ghent University, Belgium, Aug. 2âĂŞ 6, 2021.