

CURRICULUM VITAE

Galyna V. Livshyts

Address: Georgia Institute of Technology
School of Mathematics
Skiles bldg, room 228
686 Cherry street NW
Atlanta, GA, 30332
E-mail: glivshyts6@math.gatech.edu
WWW: <http://people.math.gatech.edu/~glivshyts6/>

EDUCATION:

- 2015 Ph.D., Kent State University, Kent, OH, USA.
Advisor: Professor Artem Zvavitch.
Dissertation: On the geometry of log-concave measures.
- 2010 M.Sc. (with honors), Kharkiv National University of Karazin,
Kharkiv, Ukraine.
Advisor: Professor Borys V. Novikov.
Thesis: Modules over some matrix rings.
- 2009 B.Sc., Kharkiv National University of Karazin,
Kharkiv, Ukraine.
Advisor: Professor Borys V. Novikov.
Thesis: On the sets of small defects in \mathbb{Z} .

AFFILIATIONS:

- **2010-2015:** Ph.D. student and TA, Kent State University.
- **April 2015:** IMA, Minnesota, one month general membership.
- **Fall 2017:** Postdoc, MSRI program in Geometric and Functional Analysis and applications.
- **Fall 2020:** Simons-Berkeley visiting fellow, Simons Institute of Theory of Computing.
- **Spring 2021:** Visiting Hausdorff Institute of Mathematics, Bonn, Germany.
- **Fall 2022:** Member, ICERM, program in Harmonic Analysis and Convexity, Providence, RI.

- **March 2024:** Visiting Hausdorff Institute of Mathematics, Bonn, Germany.
- **2015-2021:** Assistant Professor, Georgia Institute of Technology.
- **2021- :** Associate Professor, Georgia Institute of Technology.

FIELDS OF INTEREST:

Asymptotic geometric analysis and Convex Geometry; Analytic aspects of convexity and isoperimetric-type inequalities; Random matrix theory; Combinatorial geometry in high-dimensions; applications of Harmonic analysis in geometry; Probability and Information Theory.

PUBLICATIONS (ordered earlier to later):

- G. V. Livshyts, *Maximal surface area of a convex set in R^n with respect to exponential rotation invariant measures*, Journal of Mathematical Analysis and applications, 404, (2013) 231-238.
<https://arxiv.org/pdf/1606.02129.pdf>.
- G. V. Livshyts, *Maximal surface area of a convex set in R^n with respect to log concave rotation invariant measures*, GAFA seminar notes, 2116, (2014), 355-383.
<http://arxiv.org/pdf/1308.4202v2.pdf>.
- G. V. Livshyts, *Maximal surface area of a convex polytope in R^n with respect to log-concave rotation invariant measures*, Adv. Appl. Math., vol. 70, 54-69, (2015).
<https://arxiv.org/pdf/1409.4452.pdf>.
- G. V. Livshyts, P. Paouris, P. Pivovarov, *On sharp bounds for marginal densities of product measures*, Israel Journal of Mathematics, (2016), 216(2), 877-889.
<http://arxiv.org/abs/1507.07949>
- G. V. Livshyts, A. Marsiglietti, P. Nayar, A. Zvavitch, *On the Brunn-Minkowski inequality for general measures with applications to new isoperimetric type-inequalities*, Transactions of the AMS, 369 (2017), no. 12, 8725-8742.
<http://arxiv.org/abs/1504.04878>.
- A. Colesanti, G. V. Livshyts, A. Marsiglietti, *On the stability of Brunn-Minkowski type inequalities*, Journal of Functional Analysis 273 (2017), no. 3, 1120-1139.
<https://arxiv.org/pdf/1606.06586.pdf>

- G. V. Livshyts, K. Tikhomirov, *Randomized coverings of a convex body with its homothetic copies, and illumination*, Proceedings of the AMS, (2019), ISSN 1088-6826(online), ISSN 0002-9939(print), DOI: <https://doi.org/10.1090/proc/14126>.
<http://arxiv.org/pdf/1606.08876v1.pdf>
- G. V. Livshyts, *An extension of Minkowski's theorem and its applications to questions about projections for measures*, Advances in Mathematics, Volume 356, (2019), 106803.
<https://arxiv.org/pdf/1607.06531.pdf>
- G. V. Livshyts, K. Tikhomirov, *Cube is a strict local maximizer for the illumination number*, Discrete and Computational Geometry, (2019), 63(1), 209-228, DOI 10.1007/s00454-019-00115-9.
<https://arxiv.org/abs/1710.05070>
- A. Colesanti, G. V. Livshyts, *A note on the quantitative local version of the log-Brunn-Minkowski inequality*, Adv. Anal. Geom. 2, (special volume dedicated to the mathematical legacy of Victor Lomonosov), <https://doi.org/10.1515/9783110656756>, p. 85-98, (2021).
<https://arxiv.org/pdf/1710.10708.pdf>
- A. V. Kolesnikov, G. V. Livshyts, *On the Gardner-Zvavitch conjecture: symmetry in the inequalities of Brunn-Minkowski type*, Advances in Mathematics 384 (2021) 107689.
<https://arxiv.org/pdf/1807.06952.pdf>
- Bo'az Klartag, G. V. Livshyts, *The lower bound for Koldobsky's slicing inequality via random rounding*, Israel Seminar (GAFA) 2017-2019 Volume II, (2020), p. 43-63.
<https://arxiv.org/pdf/1810.06189.pdf>
- G. V. Livshyts, *The smallest singular value of heavy-tailed not necessarily i.i.d. random matrices via random rounding*, Journal d'Analyse Mathématique 145 (1), 257-306, (2021).
<https://arxiv.org/pdf/1811.07038.pdf>
- B. Jaye, G. V. Livshyts, G. Paouris, P. Pivovarov, *Minimizing Renyi entropy of the sum of independent random vectors*, IEEE Trans. Inform. Theory 66 (2020), no. 5, 28982903. 94A17 (60E15).
<https://arxiv.org/pdf/1904.08038.pdf>

- G. V. Livshyts, *Some remarks about the maximal perimeter of convex sets with respect to probability measures*, Communications in Contemporary Mathematics 23 (05), 2050037, (2021).
<https://arxiv.org/pdf/1904.06814.pdf>
- G. V. Livshyts, K. Tikhomirov, R. Vershynin, *The smallest singular value of inhomogeneous square random matrices*, Ann. Probab. 49 (2021), no. 3, 1286-1309.
<https://arxiv.org/abs/1909.04219>
- J. Hao, H. Huang, G. V. Livshyts, K. Tikhomirov, *Distribution of the minimal distance of random linear codes*, IEEE Transactions on Information Theory 68 (10), 6388-6401, (2022).
<https://arxiv.org/abs/1912.12833>.
- J. Hosle, A. V. Kolesnikov, G. V. Livshyts, *On the L_p -Brunn-Minkowski and dimensional Brunn-Minkowski conjectures for log-concave measures*, The Journal of Geometric Analysis 31 (6), 5799-5836, (2020).
<https://arxiv.org/pdf/2003.05282.pdf>
- A. V. Kolesnikov, G. V. Livshyts, *On the Local version of the Log-Brunn-Minkowski conjecture and some new related geometric inequalities*, International Mathematics Research Notices, rnab142, <https://doi.org/10.1093/imrn/rnab142>, Published: 08 June 2021.
<https://arxiv.org/pdf/2004.06103.pdf>
- G. V. Livshyts, *On a conjectural symmetric version of Ehrhard's inequality*, to appear in Trans. Amer. Math. Soc.
<https://arxiv.org/pdf/2103.11433.pdf>
- G. V. Livshyts, *A universal bound in the dimensional Brunn-Minkowski inequality for log-concave measures*, Trans. Amer. Math. Soc. 376 (2023), 6663-6680, DOI: <https://doi.org/10.1090/tran/8976>.
<https://arxiv.org/pdf/2107.00095.pdf>
- G. Bonnet, D. Dadush, U. Grupel, S. Huiberts, G. V. Livshyts *Combinatorial Diameter of Random Polytopes*, 38th Symposium on Computational Geometry (SoCG 2022).
- A. E. Litvak, G. V. Livshys, *New bounds on the minimal dispersion*, Journal of Complexity (2022).
<https://arxiv.org/pdf/2108.10374.pdf>
- O. Herscovici, G. V. Livshyts, *Kohler-Jobin meets Ehrhard: the sharp lower bound for the Gaussian principal frequency while the Gaussian torsional rigidity is fixed, via rearrangements*, submitted.
<https://arxiv.org/abs/2201.06191>

- O. Herscovici, G. V. Livshyts, L. Rotem, *Stability and the equality case characterization in the B-theorem of Cordero-Erasquin, Fradelizi and Maurey*, submitted.
<https://arxiv.org/abs/2305.17794>

AWARDS/HONORS:

At Georgia Tech:

- NSF-BSF DMS 2247834, 2023-2026.
- NSF CAREER DMS 1753260, 2018-2024.
- “Thank a teacher” certificate, Fall 2019, Spring 2020, Fall 2020.
- AMS Simons travel grant for junior researchers, 2017-2020.
- AWM-NSF Travel Grant, Fall 2015.

Conference grants (at Georgia Tech):

- NSF DMS 1800752, 2017-2019 (the 34th Southeastern Analysis meeting).
- NSF DMS 2001162, 2020-2021 (Harmonic Analysis and related topics).

At Kent State:

- Kent State University Fellowship, Spring 2015.
- Kent State University Graduate Senate Domestic Travel Grant, Fall 2014.
- AMS Travel Award for Graduate students, Fall 2014.
- Kent State University Graduate Senate International Travel Grant, Spring 2014.
- Kent State University Graduate Senate Domestic Travel Grant, Spring 2014.
- Kent State University Graduate Senate Domestic Travel Grant, Spring 2013.
- Kent State University Graduate Senate International Travel Grant, Spring 2013.
- Kent State University Graduate Senate Domestic Travel Grant, Fall 2012.

TEACHING AND SUPERVISION:

Courses:

Georgia Institute of Technology

- 3215: Introduction to Probability and Statistics (undergraduate), Fall 2015.
- 6241: Probability I (graduate), Fall 2016.
- 4802: Putnam problem solving (undergraduate), Fall 2016.
- 6242: Probability II (graduate), Spring 2017.

- 8803: Special topics course in High-dimensional geometry and probability (graduate), Spring 2018.
- 1554: Linear algebra (undergraduate), Spring 2018.
- 4802: Putnam problem solving (undergraduate), Fall 2018.
- 4801: Undergraduate seminar, Fall 2018.
- 4317: Analysis I (undergraduate), Fall 2018.
- 4218: Analysis II (graduate), Spring 2019.
- 3215: Introduction to Probability and Statistics (undergraduate), Fall 2019.
- 3012: Applied combinatorics (distance learning), Fall 2019.
- 6455: Differential Geometry (graduate), Spring 2020.
- 2551: Multivariable Calculus (undergraduate), Fall 2020.
- 4802: Putnam problem solving (undergraduate), Fall 2020.
- 4801: Undergraduate seminar, Fall 2020.
- 4802: Putnam problem solving (undergraduate), Fall 2021.
- 4801: Undergraduate seminar, Fall 2021.
- 7245: Stochastic Calculus 2 (Graduate), Spring 2023.
- 8803: Special topics course in Concentration of Measure (Graduate), Fall 2023. Class notes: <https://glivshyts6.math.gatech.edu/Conc-lecture-notes.pdf>
- 4802: Putnam problem solving (undergraduate), Fall 2023.
- 7251: High-dimensional Probability (graduate), Spring 2024. Class notes: <https://glivshyts6.math.gatech.edu/HDP-lecture-notes.pdf>

Kent State University

- Basic Math Concepts II, Spring 2014.
- Trigonometry, Fall 2012.
- Trigonometry, Spring 2012.
- Algebra for Calculus, Fall 2011.
- Basic Algebra III, Spring 2011.
- Basic Algebra II, Spring 2011.
- Basic Algebra I, Fall 2010.

Kharkiv, Ukraine

- Mathematics teacher at High School $N^{\circ}45$, 2009-2010.

Postdoctoral supervision:

- Stephanie Mui, 2023- ... (NSF postdoc starting 2024)
- Orli Herscovici, 2021-2023 (postdoc)
- Han Huang, 2019-2022 (postdoc, jointly with K. Tikhomirov)
- Jing Hao, 2019-2020 (postdoc)

Graduate supervision:

- Manuel Fernandez, 2022-... (Ph.D. student)
- Rocco Tenaglia, 2021 - 2022 (Masters student)

Undergraduate supervision:

- REU summer 2018 (jointly with Michael Lacey), Johanness Hosle, UCLA, resulting in the papers
J. Hosle, *On the comparison of measures of convex bodies via projections and sections*, to appear in IMRN.
<https://arxiv.org/pdf/1811.06191.pdf>
and
J. Hosle, *On Extensions of the Loomis-Whitney Inequality and Ball's Inequality for Concave, Homogeneous Measures*, to appear in Adv. Appl. Math.
<https://arxiv.org/pdf/1908.01257.pdf>
- Supervising undergraduate student Neil Patram on several research projects, 2022-...

Additional teaching activities:

- Supervising high school project, Spring 2020 and Fall 2020.
- Member of Ph.D. committees for Scott Spencer (2017, advised by Lacey), Yanxi Hou (2017, advised by Koltchinskii), Marcel Celaya (2019, advised by J. Yu), James Wenk (2022, advised by Ghomi), Nicholas Barvinok (2023, advised by Ghomi).
- External referee for the thesis of Jordan Serres, completed at the University of Toulouse under the supervision of Franck Barthe and Max Fathi.
- External committee member for the Ph.D. defense of Maud Szusterman, supervised by Eugeny Abakumov at the Mathematical Institute of Jussieu (Sorbonne).
- Served as a referee at Choose Ohio First competition for undergraduate students, Youngstown, OH, Spring 2013.
- Spoke at the Choose Ohio First meeting for undergraduate students, Kent, OH, Winter 2013. My talk was titled "Are all the triangles equilateral?"
- Advised students Alexandra Sobieska, Alexander Kokinov and Christopher Walker on a project "Knights, liars and scales" for Choose Ohio First program for undergraduate students, Kent, OH, Spring 2012.
- Assisted Professor Jenya Soprunova on a project "Lattice polytopes" of REU program at Kent State, Kent, OH, Summer 2011.
- Taught at the mathematical circles for the Fifth and Sixth grades at High School №45, Kharkiv, Ukraine, 2009-2010.

SERVICE:

Conferences and seminars organized:

- Seminar for women in Mathematics in Northern Georgia, jointly with Yulia Babenko, 2018-2019.
<https://pwp.gatech.edu/wiming/>
- Georgia Tech Analysis seminar, jointly with Shahaf Nitzan.
- Georgia Tech High-dimensional seminar, jointly with Konstantin Tikhomirov.
- Session in Probabilistic and Analytic tools in Convexity at the AMS spring southeastern sectional meeting, Athens, GA, March 5-6 2016, jointly with Elisabeth Werner and Joe Fu;
- 34th Southeastern Analysis Meeting, Atlanta, GA, March 23-25 2018, jointly with Michael Lacey, Wing Li, Shahaf Nitzan.
<https://www.math.gatech.edu/hg/item/597350>
- AIM workshop “Symmetry in geometric inequalities”, May 20-24 2019, jointly with Elisabeth Werner and Karoly Böröczky.
<https://aimath.org/workshops/upcoming/symconvgeomineq/>
- Workshop in Convexity and geometric aspects of Harmonic Analysis, December 9-13, 2019.
<http://people.math.gatech.edu/~glivshyts6/page2.html>
- Advances in Harmonic Analysis (in honor of Michael Lacey’s 60th birthday), June 2021, jointly with Dmitriy Bilyk, Dario Mena, Ioannis Parissis, Maria Reguera, Sergey Tikhonov.
<http://people.math.gatech.edu/~glivshyts6/Lacey-conference.html>
- Workshop in Convexity and High-dimensional probability, May 2022.
<http://people.math.gatech.edu/~glivshyts6/convex2021.html>
- AMS Special Session on High-dimensional Convexity at Georgia Tech, Atlanta, GA, 03/2023, joint with Dan Mikulincer and Orli Herscovici.
- Workshop in Harmonic Analysis, Atlanta, January 2024, joint with Gong Chen, Dmitry Bilyk, Benjamin Jaye and Shahaf Nitzan.
https://glivshyts6.math.gatech.edu/workshop_analysis_2023.html
- AMS Special Session on High-dimensional Convexity at Georgia Southern, Savannah, GA, 10/2024, joint with Steven Hoehner and Stephanie Mui.
- Special Session at the MAA, jointly with Umut Caglar, Julian Haddad, Steven Hoehner, Miami, Florida, July 2025.
- Summer school in Probability, Geometry and Machine learning, jointly with Andriy Prymak, Kateryna Tatarko, Roman Vershynin, Vlad Yaskin, Tetyana Zakharchenko, Lviv, Ukraine, July 2024.

- Online Asymptotic Geometric Analysis seminar, jointly with Liran Rotem
<http://people.math.gatech.edu/~glivshyts6/AGAonline.html>

Committee membership:

- CDO committee, 2016-2019
- Election committee, 2019-2021
- Colloquium committee, 2019-2020
- EDI task force, 2020-2021
- FAC committee, 2021-2023
- AFAC faculty, 2023-2024

Synergistic activities:

- Editor at Analysis and Mathematical Physics, 2022-...
- Panelist at the NSF Analysis, 2019.
- Panelist at the NSF CAREER Analysis, 2023.
- External reviewer for NKFI (Hungarian national grant), 2023.
- External reviewer for the Israel Science Foundation, 2019.
- Reviewer for JMAA, Journal of Discrete Math, Advances in applied math, Journal of Functional analysis, Periodica Mathematica Hungarica, IEEE International Symposium on Information Theory, Memoirs of the AMS, Indiana Journal of Math, Journal of Geometric Analysis, Transactions of the AMS, Bull. Lond. Math. Soc., Electronic Journal of Probability, Israel Journal of Math, IEEE Transactions of Information Theory, IMRN, Memoirs of the AMS, Transactions of the AMS, Proceedings of London MS, Journal of the EMS, Rev. Mat. Iberoam., GAFA seminar notes, J. Differ. Geom., Mathematika, Rocky mountain J. Math., Mathematische Nachrichten,
- Reviewer for Math Reviews.
- Organizer for Virginia Tech Open math contest at Georgia Tech in 2016 and 2018.
- Organizer for Putnam exam at Georgia Tech in 2016, 2018, 2020, 2021, 2023.
- Participant of the Early Career Peer Group for Women in Probability, organized by Tai Melcher.
- Panelist at the 2017 Field of Dreams conference.

CONFERENCES AND TALKS

Upcoming talks and trips in general:

- HIM program in the Analysis on the Discrete Cube, 12/2024.
- MFO Oberwolfach workshop in Convexity, Germany, 12/2024.
- Workshop in Harmonic Analysis and Convexity, ICERM, Providence, RI, 12/2024.

- Workshop in High-dimensional Probability, HIM, Bonn, Germany, 03/2024.

Talks (excluding local seminars):

- Geometric Analysis Seminar, Courant Institute, New York, NY, 02/2024.
- Measure Theory Seminar, Kent, OH, 02/2024.
- BIRS workshop in Convexity and Harmonic Analysis, Banff, Canada, 11/2023.
- AMS meeting, Session in Discrete Geometry, Mobile, AL, 10/2023.
- SUMIFRAS, plenary talk, Texas A&M University, College Station, TX, 07/2023.
- Analysis seminar, University of Naples, Italy, 07/2023.
- Workshop in Convexity, plenary talk, Cortonne, Italy, 06/2023.
- Workshop in Analysis in Bar Ilan University, Israel, 06/2023.
- BIRS IMAG workshop in Geometric inequalities, convexity and probability, Granada, Spain, 06/2023.
- Workshop in honor of Sergey Bobkov's birthday, Toulouse, France, 05/2023.
- Workshop on Random matrices and random polynomials, plenary talk, UIC, Chicago, IL, 05/2023.
- AMS meeting section in Harmonic Analysis, Cincinnati, OH, 04/2023.
- Brown Probability seminar, Providence, RI, 12/2022.
- Brown Analysis seminar, Providence, RI, 10/2022.
- ICERM Probabilistic methods in Geometry and Analysis workshop, Providence, RI, 10/2022.
- ICERM Harmonic Analysis methods in Geometric tomography workshop, Providence, RI, 09/2022.
- Sorbonne Functional Analysis Seminar, Paris, France, 06/2022
- Conference on "Phenomena in High Dimensions" in IHP, Paris, France, 06/2022.
- Kent State Measure Theory seminar, Kent, OH, 04/2022.
- Online Analysis Research Seminar (UCLA), online, 3/2022
- Point distributions webinar, online, 2/2022
- IPAM workshop in variational methods in geometry, 02/2022
- Simons Institute program in Probability in High Dimensions reunion 01/2022
- Oberwolfach workshop in Convex geometry and its applications, Oberwolfach, Germany, 12/2021
- Interaction Between Partial Differential Equations and Convex Geometry (Online), IASM, 10/2021.
- Conference in Convex Geometry, online, 03/2021.
- Workshop on High dimensional measures: geometric and probabilistic aspects, HIM, Bonn, online, 03/2021.

- Probability and Analysis Webinar, online, 02/2021.
- Simons Institute Industry Day, a lightning talk, online, 11/2020.
- Georgia Tech Research Horizons seminar for grad students, online, 10/2020.
- Workshop in concentration of measure, Simons Institute, Berkeley, CA, online, 10/2020.
- Probability seminar at Texas A&M, online, 10/2020.
- Southeastern AMS meeting, online, 10/2020.
- Simons Institute Fellows seminar, online, 09/2020.
- Online Asymptotic Geometric Analysis Seminar, 05/2020.
- Invited seminar, University of Southern California, CA, ONLINE 04/2020.
- Geometry Seminar Online, Emory University, 04/2020.
- (cancelled) Session in convexity, AMS meeting, University of Virginia, 03/2020.
- (cancelled) Session in harmonic analysis, AMS meeting, University of Virginia, 03/2020.
- Geometric Tomography, Banff, Canada, 02/2020.
- Colloquium, Clemson University, SC, 01/2020.
- (cancelled) Colloquium, Penn State University, State College, PA, 1/2020.
- Colloquium, University of Illinois at Chicago, IL, 12/2019.
- Colloquium, University of Georgia, Athens, GA, 11/2019.
- Talk at the Probability seminar, Carnegie Mellon, PA, 11/2019.
- Colloquium, University of Minnesota, MN, 11/2019.
- AMS meeting, Gainesville, Florida, 10/2019.
- Geometry seminar, Penn State, State College, PA, 10/2019.
- Probability seminar, University of Minnesota, MN, 10/2019.
- Invited talk at Case Western Math colloquium, Cleveland, OH, 09/2019.
- Colloquium talk at KSU, Kent, OH, 09/2019.
- Invited talk at Purdue Probability seminar, West Lafayette, IN, 09/2019.
- Discrete Geometry Days squared, Budapest, Hungary, 07/2019.
- Workshop in differential geometry, analysis and PDE, Kharkiv, Ukraine 07/2019.
- CMU meeting, Regina, Canada, 06/2019.
- Kent State Measure Theory seminar, Kent, OH, 04/2019.
- Talk at AMS joint meeting, Honolulu, HI, 03/2019.
- Talks at the Probability seminars, UC Irvine, CA, 03/2019.
- ACR event, Georgia Institute of Technology, Atlanta, GA, 2/2019.
- UGA Geometric Analysis seminar, Athens, GA, 2/2019.
- Talk at the Analysis seminar, University of Edinburgh, Scotland, UK, 12/2018.

- 50-min talk at Workshop “Convex Geometry and its Applications”, Mathematisches Forschungsinstitut Oberwolfach, Germany, 12/2018.
- Plenary talk at “Mid-Atlantic Analysis meeting”, Virginia Tech, Blacksburg, VA, 11/2018.
- Talk at Workshop “Functional inequalities in Probability”, University of Connecticut, Mansfield, CT, 11/2018.
- Colloquium at Georgia Southern University, GA, 10/2018.
- AMS sectional meeting, University of Delaware, 9/2018.
- SUMIFRAS, Texas A&M University, College Station, TX, 8/2018.
- Workshop “Asymptotic and affine geometric analysis”, Rio de Janeiro, Brazil, 7/2018.
- GAFA seminar Tel-Aviv University, Israel, 6/2018.
- TSIMF workshop “Recent Advances in Convex Geometry and Geometric Functional Analysis”, Sanya, Hainan, China, 5/2018.
- Bristol University Probability seminar, Bristol, UK, 5/2018.
- BIRS workshop “Emerging trends in Geometric and Functional Analysis”, Banff, Canada, 3/2018.
- AMS session “Probability in Convexity and Convexity in Probability”, Columbus, OH, 3/2018.
- MSRI postdoc seminar, Berkeley, CA, 12/2017.
- Field of Dreams conference, St. Louis, MO, 11/2017.
- MSRI workshop “Connections for Women: geometry and probability in high dimensions”, Berkeley, CA, 8/2017.
- Banach center workshop “Convex, Discrete and Integral Geometry”, Bedlewo, Poland, 6/2017.
- Workshop on Information-Theoretic Inequalities, Newark, DE, 4/2017.
- Colloquium, CSUN, Northridge, CA, 2/2017.
- Colloquium, UMass Boston, 2/2017.
- Analysis seminar, Vanderbilt University, Nashville, TN, 1/2017.
- Colloquium, Florida State University, Tallahassee, FL, 1/2017.
- Special session “Women in Analysis, in honor of Cora Sadosky”, AMS Joint Meeting, Atlanta, GA, 1/2017.
- Colloquium, Ohio State University, Columbus, OH, 11/2016.
- Internet seminar of the women in probability group, 11/2016.
- Special session on Discrete Structures: Analysis and Applications (IMA Reunion), AMS Sectional Meeting, University of St. Thomas, Minneapolis, MN, 10/2016.
- Workshop on Analytic Aspects of Convexity, Rome, Italy, 10/2016.
- Invited talk at Analysis seminar, Kennesaw State University, GA, 9/2016.
- Workshop in Analysis and Probability, Concentration Week on Geometric Functional Analysis, Texas A&M University, College Station, TX, 7/2016.

- Session in Convex and Discrete geometry, CMS meeting, Edmonton, AB, Canada, 6/2016.
- A talk on illumination and covering problems at the Georgia Tech graduate student seminar, Atlanta, GA, 4/2016.
- Invited talk at Analysis seminar, University of Florence, Florence, Italy, 1/2016.
- Invited talk at Analysis and Probability mini-symposium, ICMS, Edinburgh, Scotland, 12/2015.
- Workshop “Convex Geometry and its Applications”, Mathematisches Forschungsinstitut Oberwolfach, Germany, 12/2015.
- Workshop “Analytic and probabilistic techniques in modern convex geometry”, University of Missouri, Columbia, MO, 11/2015.
- Invited talk at Analysis Seminar, Brown University, Providence, RI, 10/2015.
- Invited talk at Stochastic Seminar, Georgia Institute of Technology, Atlanta, GA, 6/2015.
- Invited talk at Analysis Seminar, Case Western Reserve University, Cleveland, OH, 5/2015.
- IMA Postdoc seminar, IMA, Minneapolis, MN, 4/2015.
- Invited talk at Analysis Seminar, Texas A&M University, College Station, TX, 2/2015.
- Invited talk at Analysis Seminar, Ohio State University, Columbus, OH, 1/2015.
- Invited talk at Analysis Seminar, University of Missouri, Columbia, MO, 12/2014.
- Colloquium, Georgia Institute of Technology, Atlanta, GA 11/2014.
- AMS meeting, San Francisco, CA 10/2014.
- Invited talk at Analysis Seminar, University of Rochester, NY, 10/2014.
- Invited talk at Asymptotic Geometric Analysis Seminar, Tel Aviv, Israel, 5/2014.
- GSS symposium, Kent, OH, 4/2014.
- BIRS Workshop “Geometric Tomography and Harmonic Analysis”, Banff, AB, Canada, 3/2014.
- AMS meeting, St. Louis, MO, 10/2013.
- GSS symposium, Kent, OH, 4/2013.
- Third Ohio River Analysis Meeting, Cincinnati, OH, 3/2013.
- Graduate Student Mathematics Seminar, Kent, OH, 2/2013.
- AMS meeting, Akron, OH, 10/2012.
- Graduate Student Mathematics Seminar, Kent, OH, 4/2011.
- Department of Mathematical Sciences, Kharkiv, Ukraine, 6/2010.
- Kharkiv University Algebra Seminar, Kharkiv, Ukraine, 11/2009.
- Department of Mathematical Sciences, Kharkiv, Ukraine, 6/2009.
- Ukrainian annual Algebra conference for undergraduate and graduate students, Kharkiv, Ukraine, 5/2009.

- Kharkiv University research competition for undergraduate students, Kharkiv, Ukraine, 2/2008.

Other conferences participated:

- Informal Analysis seminar, Kent, OH, 11/2019.
- Analysis in Missouri: a midwestern symposium, Columbia, MO, 09/2019.
- Birthday conference in honor of Vitaly Milman, Israel, 07/2019.
- AIM workshop, Symmetry in the inequalities of Brunn-Minkowski type, San Jose, CA, 05/2019.
- Kent State Informal Analysis seminar, OH, 04/2019.
- Conference in memory of Joe Diestel and Victor Lomonosov, Kent State University, Kent, OH, 10/2018.
- Kent State Informal Analysis seminar, Kent, OH, 2/2018.
- MSRI workshop “Geometric functional analysis and applications”, Berkley, CA, 11/2017.
- MSRI workshop “Introductory Workshop: phenomena in high dimensions”, Berkley, CA, 8/2017.
- BIRS workshop “Recent Advances in Discrete and Analytic Aspects of Convexity”, Banff, Canada, 5/2017.
- MSRI workshop “Recent developments in Harmonic Analysis”, Berkley, CA, 5/2017.
- AIM workshop “Entropy power inequalities”, San Jose, California, 5/2017.
- Conference “Harmonic Analysis And Geometry Of Fractal Sets”, Columbus, OH, 2/2017.
- Conference “Infinite Dimensional Analysis: Celebrating Richard Aron’s Work and Impact”, Kent, OH, 10/2016.
- Conference on Convex and Discrete Geometry on the occasion of Peter M. Gruber’s 75th birthday, Vienna, Austria, 7/2016.
- Conference on Geometric Functional Analysis in honor of Nicole Tomczak-Jaegermann, Edmonton, Canada, 5/2016.
- Kent State Informal Analysis Seminar, Kent, OH, 4/2016.
- Kent State Informal Analysis Seminar, Kent, OH, 11/2015.
- CBMS series, Kent State University, Kent, OH, 8/2015.
- CBMS series, North Dakota State University, Fargo, ND, 7/2015.
- Workshop “Analytic Tools in Probability and Applications”, IMA, Minneapolis, MN, 4/2015 (presented a poster).
- Workshop “Information Theory and Concentration Phenomena”, IMA, Minneapolis, MN, 4/2015 (presented a poster).
- Kent State Informal Analysis Seminar, Kent, OH, 3/2015.
- Kent State Informal Analysis Seminar, University of Michigan, MI, 10/2014 (presented a poster).

- Conference “Stochastic processes and high dimensional probability distributions”, Euler Institute, Saint-Petersburg, Russia, 6/2014 (presented a poster).
- Kent State Informal Analysis Seminar, Kent, OH, 4/2014.
- Kent State Informal Analysis Seminar, Kent, OH, 3/2014 (presented a poster).
- AIM Workshop “Sections of convex bodies”, Palo Alto, CA, 8/2013.
- Winter school “Convexity and probability in high dimensions”, Paris, France, 1/2013.
- Kent State Informal Analysis Seminar, Kent, OH, 10/2012.
- AIM Workshop “Invariants in convex geometry and Banach space theory”, Palo Alto, CA, 8/2012.
- IMA Conference for women in Analysis and PDE, Minneapolis, MN, 6/2012.
- Kent State Informal Analysis Seminar, Kent, OH, 4/2012.
- Kent State Informal Analysis Seminar, Kent, OH, 11/2011.
- CBMS lecture series by Professor Hillel Furstenberg, Kent, OH, 6/2011.
- Kent State Informal Analysis Seminar, Kent, OH 4/2011.