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Iosif Pinelis
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- Citizenship: USA

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Professional Preparation

- Novosibirsk University, Novosibirsk, f. USSR: Mathematics and applied mathematics, a degree equivalent to B.S. and M.S. (with distinction), 1974
- Institute of Mathematics, Academy of Sciences, Novosibirsk, f. USSR: Probability and mathematical statistics, a degree equivalent to Ph.D., 1982

Appointments

- Professor, Michigan Technological University (1994–)
- C. C. Hsiung Visiting Professor, Lehigh University, Bethlehem, PA (2000–01, Fall–Spring)
- Associate Professor, Michigan Technological University (1992–94)
- Visiting Associate Professor, CUNY, New York, NY (1992, Spring)
- Visiting Associate Professor, University of Illinois, Urbana-Champaign (1991, Fall)
- Research Specialist, Arizona Cancer Center, University of Arizona (1991, July–August)
- Assistant Professor, Institute of Electrical Engineering, Novosibirsk, f. USSR (1988–1990)
- Assistant Professor, Institute of Railroad Engineering, Novosibirsk, f. USSR (1984–1988)
- Instructor, Institute of Railroad Engineering, Novosibirsk, f. USSR (1977–1984)
- Research Specialist, Institute of Systems Research, Novosibirsk, f. USSR (1975–1977)

Selected publications

- [0] Pinelis, I. Exact Rosenthal-type bounds. *Ann. Probab.* **43** (2015), 2511–2544.
- [1] Pinelis, I. On the Bennett-Hoeffding inequality. *Annales de l'Institut Henri Poincaré*. **50** (2014), 15–27.
- [2] Pinelis, I. An asymptotically Gaussian bound on the Rademacher tails. *Electronic J. Probab.* **17** (2012), 1–22.
- [3] Pinelis, I. Exact inequalities for sums of asymmetric random variables, with applications. *Probab. Theory Related Fields* **139** (2007) 605–635.
- [4] Pinelis, I. Extremal probabilistic problems and Hotelling's T^2 test under a symmetry condition. *Ann. Statist.* **22** (1994) 357–368.
- [5] Pinelis, I. F. A problem of large deviations in a space of trajectories. *Theory Probab. Appl.*, **26** (1981) 69–84.
- [6] Weidman, P. and Pinelis, I. Model equations for the Eiffel tower profile: historical perspective and new results. *Comptes Rendus Mecanique* **332** (2004) 571–584.
- [7] Pinelis, I. Evolutionary models of phylogenetic trees. With an electronic appendix [DOI 10. 1098 spb. 2003. 2374]. *Roy. Soc. Lond. Proc. Ser. Biol. Sci.* **270** (2003) 1425–1431+15 pp.
- [8] Pinelis, I. A discrete mass transportation problem for infinitely many sites, and general representant systems for infinite families. *Math. Methods Oper. Res.* **58** (2003) 105–129.
- [9] Chubarev, A. and Pinelis, I. Linearity of space-time transformations without the one-to-one, line-onto-line, or constancy-of-speed-of-light assumptions. *Comm. Math. Phys.* **215** (2000) 433–441.
- [10] Pinelis, I. Optimum bounds for the distributions of martingales in Banach spaces. *Ann. Probab.* **22** (1994) 1679–1706.

Synergistic Activities

I.P.'s most extensive expertise is in probability and statistics, including extremal problems, exact inequalities, and limit theorems of probability and statistics; six of his publications in these areas are listed above, [0–5]; for more see I.P. publication list.

I.P. has also demonstrated an outstanding ability to reach out and conduct high-quality research in a wide variety of fields in mathematics and its applications. Such synergistic activities are exemplified by the above references [6] (mechanical engineering), [7] (biology), [8] (operations research and combinatorics), and [9] (geometry and physics). Stories on his work [7] were broadcast by the United Press International and other news agencies. Study [6] has also received wide publicity.

An interesting application of an inequality provided in [4] was given by D. A. Cardon (2002) Convolution operators and zeros of entire functions, *Proc.*

Amer. Math. Soc. **130** 1725–1734, where a result of Pólya concerning the Riemann zeta function $\zeta(s)$ was generalized.

Results given in [10] have been used in a number papers; a series of recent applications have been to learning theory, including S. Smale and D.-X. Zhou (2007) Learning theory estimates via integral operators and their approximations, *Constructive Approximation* **26** 153–172.

Thesis Advisor

Gao Ming (M.S.); Elena Kasyanova (Ph.D.); Raymond Molzon (Ph.D.); Zhitong Zhao (Ph.D.); Keguo Huang (M.S.); Brent Halonen (M.S.).

Awards

- NSA grant “Precise probabilistic tools for statistical practice”, 2012–2014.
- NSF grant “Exact inequalities and limit theorems for Rademacher and self-normalized sums, and related statistics”, 2008–2011.
- Outstanding Teaching Award, 2019, Department of Mathematical Sciences, Michigan Technological University
- Outstanding Research Award, 2017, Department of Mathematical Sciences, Michigan Technological University
- Outstanding Research Award, 2015, Department of Mathematical Sciences, Michigan Technological University
- Outstanding Research Award, 2012, Department of Mathematical Sciences, Michigan Technological University
- Outstanding Research Award, 2009, Department of Mathematical Sciences, Michigan Technological University
- Outstanding Research Award, 2007, Department of Mathematical Sciences, Michigan Technological University
- Outstanding Research Award, 2005, Department of Mathematical Sciences, Michigan Technological University

Publication List

- [1] I. Pinelis, V. de la Peña, R. Ibragimov, A. Osekowski and I. Shevtsova. Ed. I. Pinelis. *Inequalities and Extremal Problems in Probability and Statistics: Selected Topics*. Academic Press, Elsevier, 2017.
- [2] Iosif Pinelis. A simple and more general approach to Stokes’ theorem. <https://arxiv.org/abs/1901.09295>, to appear in *Mathematics Magazine*, 2019.

- [3] Iosif Pinelis. A necessary and sufficient condition on the stability of the infimum of convex functions. *J. Convex Anal.*, 26(1):77–87, 2019.
- [4] Iosif Pinelis. Generalized semimodularity: Order statistics. In *High dimensional probability VIII*, volume 74 of *Progress in Probability*, pages 99–119. Springer, 2019.
- [5] Iosif Pinelis. Excess versions of the Minkowski and Hölder inequalities. *Math. Inequal. Appl.*, 22(3):781–790, 2019.
- [6] Iosif Pinelis. Exact upper bound on the sum of squared nearest-neighbor distances between points in a rectangle. To appear in *Mathematical Inequalities & Applications*, 2019.
- [7] Iosif Pinelis. Exact bounds on the zeros of solutions of second-order differential inequalities. In Dorin Andrica and Themistocles M. Rassias, editors, *Differential and Integral Inequalities*, pages 719–724. Springer International Publishing, 2019.
- [8] I. Pinelis. An optimal upper bound on the tail probability for sums of random variables. *Theory of Probability & Its Applications*, 64(3):474–480, 2019.
- [9] I. Pinelis. Nonnegative sum-symmetric matrices and optimal-score partitions. *Positivity*, 2019. Online First.
- [10] I. Pinelis. Exact upper and lower bounds on the misclassification probability. *IEEE Transactions on Information Theory*, 65(7):4327–4334, July 2019.
- [11] Aryeh Kontorovich and Iosif Pinelis. Exact lower bounds for the agnostic probably-approximately-correct (PAC) machine learning model. *Ann. Statist.*, 47(5):2822–2854, 2019.
- [12] Iosif Pinelis. Positive-part moments via characteristic functions, and more general expressions. *J. Theoret. Probab.*, 31(1):527–555, 2018.
- [13] Iosif Pinelis. Measure extension by local approximation. *Positivity*, 22(1):199–208, Mar 2018.
- [14] Iosif Pinelis. Exact confidence intervals and rectangles for the endpoints of the uniform distribution. *Discuss. Math. Probab. Stat.*, 38(1-2):15–19, 2018.
- [15] Iosif Pinelis. Exact bounds on the inverse Mills ratio and its derivatives. *Complex Analysis and Operator Theory*, pages 1–9, 1 2018.
- [16] Iosif Pinelis. An alternative to the Euler–Maclaurin summation formula: approximating sums by integrals only. *Numerische Mathematik*, 140(3):755–790, 2018.

- [17] I. Pinelis. Exact bounds on the truncated-tilted mean, with applications. *Teor. Veroyatn. Primen.*, 63(3):545–564, 2018. Reprinted in *Theory Probab. Appl.* **63** (2019), no. 3, 447–463.
- [18] I. Pinelis. Quantifying minimal noncollinearity among random points. *Theory of Probability & Its Applications (Teor. Veroyat. Primen.)*, 62(4):604–616 (753–768), 2018 (2017). arXiv:1608.04455 [math.PR].
- [19] Iosif Pinelis. (Quasi)additivity properties of the Legendre–Fenchel transform and its inverse, with applications in probability. *J. Convex Anal.*, 24(3), 2017.
- [20] Iosif Pinelis. Optimal-order uniform and nonuniform bounds on the rate of convergence to normality for maximum likelihood estimators. *Electron. J. Statist.*, 11(1):1160–1179, 2017.
- [21] Iosif Pinelis. On the nonuniform Berry–Esseen bound. In I. Pinelis, editor, *Inequalities and Extremal Problems in Probability and Statistics: Selected Topics*, pages 103–138. Academic Press, Elsevier, 2017.
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- [23] Iosif Pinelis. An involution inequality for the Kullback–Leibler divergence. *Math. Inequal. Appl.*, 20(1):233–235, 2017.
- [24] Iosif Pinelis. Contrast between populations versus spread within populations. *Statist. Probab. Lett.*, 121:99–100, 2017.
- [25] Iosif Pinelis and Raymond Molzon. Optimal-order bounds on the rate of convergence to normality in the multivariate delta method. *Electron. J. Stat.*, 10(1):1001–1063, 2016.
- [26] Iosif Pinelis. Unimodality of certain parametric integrals. *Math. Inequal. Appl.*, 19(1):381–384, 2016.
- [27] Iosif Pinelis. Optimal binomial, Poisson, and normal left-tail domination for sums of nonnegative random variables. *Electron. J. Probab.*, 21:1–19, 2016.
- [28] Iosif Pinelis. On the extreme points of moments sets. *Math. Methods Oper. Res.*, 83(3):325–349, 2016.
- [29] Iosif Pinelis. On Measurable Semigroups in \mathbb{R} . *Amer. Math. Monthly*, 123(5):481, 2016.
- [30] Iosif Pinelis. On a multidimensional spherically invariant extension of the Rademacher–Gaussian comparison. *Electron. Comm. Probab.*, 21:paper no. 67, 5 pp. (electronic), 2016.

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- [32] I. Pinelis. Convex cones of generalized multiply monotone functions and the dual cones. *Banach J. Math. Anal.*, 10(4):864–897, 2016.
- [33] Aryeh Kontorovich and Iosif Pinelis. Exact lower bounds for the agnostic probably-approximately-correct (PAC) machine learning model. <https://arxiv.org/abs/1606.08920>, to appear in the *Annals of Statistics*, 2016.
- [34] Iosif Pinelis. A topological dichotomy with applications to complex analysis. *Colloq. Math.*, 139(1):137–146, 2015.
- [35] Iosif Pinelis. Relationships between the first four moments. *Amer. Math. Monthly*, 122(5):479–481, 2015.
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- [37] Iosif Pinelis. On the Hölder and Cauchy–Schwarz Inequalities. *Amer. Math. Monthly*, 122(6):593–595, 2015.
- [38] Iosif Pinelis. Monotone tail and moment ratio properties of Student’s family of distributions. *Math. Methods Statist.*, 24(1):74–79, 2015.
- [39] Iosif Pinelis. Geometrically convergent sequences of upper and lower bounds on the Wallis ratio and related expressions. *Math. Inequal. Appl.*, 18(1):195–205, 2015.
- [40] Iosif Pinelis. Exact upper and lower bounds on the difference between the arithmetic and geometric means. *Bull. Aust. Math. Soc.*, 92(1):149–158, 2015.
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- [42] Iosif Pinelis. Characteristic function of the positive part of a random variable and related results, with applications. *Statist. Probab. Lett.*, 106:281–286, 2015.
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- [48] Iosif Pinelis. On the Bennett–Hoeffding inequality. *Annales de l’Institut Henri Poincaré, Probabilités et Statistiques*, 50(1):15–27, 2014.
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- [55] Iosif Pinelis. Exact lower bounds on the exponential moments of Winsorized and truncated random variables. *J. App. Probab.*, 48:547–560, 2011.
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- [69] P. Weidman and I. Pinelis. Model equations for the Eiffel tower profile: historical perspective and new results. *Comptes Rendus Mecanique*, 332:571–584, 2004.
- [70] Iosif Pinelis. L’Hospital rules for monotonicity and the Wilker-Anglesio inequality. *Amer. Math. Monthly*, 111(10):905–909, 2004. MR2104696.
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- [86] Iosif Pinelis. Fractional sums and integrals of r -concave tails and applications to comparison probability inequalities. In *Advances in stochastic inequalities (Atlanta, GA, 1997)*, volume 234 of *Contemp. Math.*, pages 149–168. Amer. Math. Soc., Providence, RI, 1999. MR1694770.

- [87] Iosif Pinelis. Correction: “Optimum bounds for the distributions of martingales in Banach spaces” [Ann. Probab. **22** (1994), no. 4, 1679–1706; MR1331198 (96b:60010)]. *Ann. Probab.*, 27(4):2119, 1999. MR1742904.
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- [101] I. F. Pinelis. On minimax risk. *Teor. Veroyatnost. i Primenen.*, 35(1):92–97, 1990. MR1050057.
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