

CURRICULUM VITAE
Károly Böröczky

Born: February 10, 1964, Budapest, Hungary

Marital status: Married, having a daughter and a son

Affiliation

1992– : Alfréd Rényi Institute of Mathematics

Full professor since 2006

2012–: Central European University, Budapest

part time position as head of mathematics department and full professor

2004– : Roland Eötvös University, Budapest

part time position as a full professor

1989–1992: PhD student at the University of Calgary

1988–1989: Assistant professor, Technical University of Budapest

Degrees, Prizes, Awards

2015: Rényi Prize (Alfréd Rényi Institute of Mathematics)

2009: FP7 Marie Curie IEF Fellowship, Barcelona, 2 years

2006: Doctor of Mathematical Sciences (Hungarian Academy of Sciences)

2004: Paul Erdős Prize (Hungarian Academy of Sciences)

2001,2005: Bolyai Scholarship of the Hungarian Academy of Sciences

1998: Széchenyi Professorship of the Hungarian Ministry of Education

1995: Scholarship of the Volkswagen Stiftung, half a year at Universität Siegen

1994: Magyary Zoltán Scholarship of the Hungarian Ministry of Education

1993: Candidate degree of the Hungarian Academy of Science

1992: PhD, University of Calgary

1988: Diploma (MSc) Roland Eötvös University, Budapest

Major publications

- K.J. Böröczky, E. Lutwak, D. Yang, G. Zhang, Yiming Zhao: The Gauss image problem. *Communications on Pure and Applied Mathematics*, 73 (2020), 1406-1452. arxiv:1703.06259
- K.J. Böröczky, M. Ludwig: Minkowski valuations on lattice polytopes. *Journal of EMS*, 21 (2019), 163-197. 18 citations
- K.J. Böröczky, E. Lutwak, D. Yang, G. Zhang: The logarithmic Minkowski problem. *Journal of AMS*, 26 (2013), 831-852. 190 citations
- K.J. Böröczky, E. Lutwak, D. Yang, G. Zhang: The log-Brunn-Minkowski inequality. *Advances in Math.*, 231 (2012), 1974-1997. 175 citations
- K. Böröczky, Jr.: *Finite packing and covering*. *Tracts in Mathematics*, Cambridge University Press, 2004. 187 citations

Plenary talks the last 5 years

July 2020 Convex and Discrete Geometry, satellite to European Congress of Mathematicians, Slovenia

September 2019 Convex, Discrete and Integral Geometry, Jena

December 2018 Convex geometry, Oberwolfach

July 2018 Asymptotic and Geometric Analysis, satellite to International Congress of Mathematicians, Rio de Janeiro, Brasil

June 2017 Discrete and Convex Geometry, Budapest, Hungary

May 2017 Discrete Geometry Fest, Budapest, Hungary

October 2016 Analytic aspects of Convexity, Rome, Italy

July 2016 Convex and Discrete Geometry, Vienna, Austria

June 2016 Discrete Geometry Days, Budapest, Hungary

November 2015 Convexity Workshop, Szeged, Hungary

Management experience

- Head of Department of Mathematics and its Applications at Central European University, Budapest, 2012-
- Scientist in charge of JustData project on the Societal Aspects of Big Data at Central European University involving the Departments of Mathematics, Economics, Sociology and the School of Public Policy, 2017-2019.
- Scientific Secretary (1996-2000), Head of the Research Training Department (2000-2009), at Alfréd Rényi Institute of Mathematics, Hungarian Academy of Sciences.
- Co-ordinator of EU FP6 Marie Curie TOK project “Budalggeo”, 2004-2008 (field: algebraic geometry) cooperating with Pisa, Nice, Bochum, etc
- Scientist in charge of the EU FP6 Marie Curie Intra-european fellowship of András Némethi, 2004-2006, and Alex Küronya, 2006-2007 (fields: algebraic geometry).
- Co-ordinating in part EU FP6 Marie Curie TOK project “Disconvgeo”, 2005-2009 (field: discrete and convex geometry), and the Budapest node of EU FP6 Marie Curie RTN Network “PHD”, 2004-2008 (field: combinatorics, convex geometry).
- Scientist in charge of the Hungarian Research Grants (OTKA, NKFIH) Algebraic geometry, 1997-1999, Algebraic and discrete geometry, 2000-2002, and Inequalities in convex geometry (2008-2009), Stochastic Geometry (2016-2019), Geometric inequalities (2018-2020).
- Co-Scientist in charge with Monika Ludwig (TU Wien) of the FWF-NKFIH grant “Valuations on lattice polytopes” (2017-2019)
- The thesis adviser of four Masters and four PhD students.

Committees

2018-2020 Mathematical Committee, Hungarian Scientific Fund

2013-2020 Doctoral Program Committee, Department of Mathematics, CEU

2011-2016 Mathematical Committee, Hungarian Academy of Sciences

2009-2011 Mathematical Committee, Hungarian Scientific Fund

2008-2010 Committee for the Degree Doctor of Science in Mathematics, Hungarian Academy of Sciences

Meetings organized

- AIM Workshop on Symmetry and convexity in geometric inequalities** (San Jose, California, US, 2019, with Werner (Case Western) and Livshyts (Georgia Tech))
- Conference on Fluids and Variational Methods** (Budapest, 2019, with Szekelyhidi (Leipzig))
- Szeged Workshop on Convexity** (Szeged, 2019, with Ludwig (TU Wien), Fodor, Vigh)
- JustData Workshop on the Societal Aspects of Big Data** (Budapest, 2018, with Kertesz)
- Workshop on Differential Equations** (Budapest, 2018)
- Conference on Discrete Geometry and Convexity** (Budapest, 2017, with Ambrus, Furedi)
- Discrete Geometry Fest** (Budapest, 2017, with Fodor)
- Summer School on Low Dimensional Topology** (Budapest, 2016, with Stipsicz)
- Geometry Mini-symposium at the Austrian-Hungarian joint meeting** (Győr, 2015, with Ludwig (TU Wien))
- László Fejes Tóth Centennial** (Budapest, 2015, with Ambrus, Bárány, G. Fejes Tóth, Pach)
- Workshop on Discrete Geometry** (Budapest, 2009)
- Workshop on Discrete and Convex Geometry** (Budapest, 2008, with Bárány, Böröczky Sr, Heppes, Pach)
- Intuitive Geometry Conference 7, in Memoriam László Fejes Tóth** (Budapest, 2008, with Bárány, Böröczky Sr, Heppes, Pach)
- Geometry Fest** (Budapest, 2007, with Böröczky Sr, Fodor, Harborth (TU Braunschweig) and Kuperberg (Auburn))
- Workshop on Invariants in Low-dimensional topology** (Budapest, 2003, with Stipsitz)
- Programme in Higher dimensional varieties and Rational points** (Budapest, 2001, with Kollar (Princeton), Szamuely)
- Summer School on Low Dimensional Topology** (Budapest, 1998, with Stipsitz)
- EMS Summer School on Algebraic Geometry** (Eger, 1996, with Kollar (Princeton))
- Workshops on Convexity** (Budapest, 1995, 1997, 2003, with Gábor Fejes Tóth)

Visits

2009-2010, 2011-2012 Academic years FP7 Marie Curie IEF Fellowship, UPC, Barcelona

2010-2011 Academic year NYU-Poly, New York, USA

2009: Université de Paris Est Marne-la-Vallée, France, two months

2008: UPC, Barcelona, Spain, two months

2008: University College London, London, England, two months

2007: visiting professor, University of Pisa, Italy, two months

2006: visiting professor, UPC, Barcelona, Spain, four months

2006: visiting professor, University of Nice, France, two months

2002: visiting professor, Ohio-State University, Columbus, OH, US, three months

1999: visiting professor, Western Washington University, Bellingham, WA, three months

1999: visiting professor, University College London, London, England, three months

1996: Volkswagen Stiftung scholar, Universität Siegen, Germany, one month

1996: visiting professor, University of Calgary, Canada, one month

1995: Volkswagen Stiftung scholar, Universität Siegen, Germany, half a year

1993: visiting professor, University of Calgary, Canada, six weeks

Teaching experience in English

(Calculus, Lin. algebra, Probability, Complex Analysis, Algebraic topology, Convex geometry)

2012- Central European University, Budapest

2010-2011 Academic year NYU-Poly, New York, USA

2005-2008: Central European University, Budapest

2002: Ohio-State University, Columbus, OH, US, Fall term

1999: Western Washington University, Bellingham, WA, USA, Fall term

1999: University College London, London, England, Winter term

1996-2009: Budapest Semesters in Mathematics, Western Maryland College

1989-1992: tutoring (also some stand up tutorials) at the University of Calgary

In Hungarian:

1993– : Both undergraduate and graduate courses at Roland Eötvös University, Budapest

1993–1997: First year courses at the University of Economics, Budapest (approx. 100 students)

The publications of Károly J. Böröczky

1. K. Böröczky, Jr.: Rectangular convexity of convex domains of constant width. *Geometriae Dedicata*, 34 (1990), 13–18.
2. T. Bisztriczky, K. Böröczky, Jr., H. Harboth, L. Piepmeyer: On the smallest limited snake of unit disks. *Geometriae Dedicata*, 40 (1991), 319–324.
3. K. Böröczky, Jr.: About the mean width of simplices. *Periodica Polytechnica*, 40 (1992), 291–297.
4. K. Böröczky, Jr., N. Sauer, X. Zhu: Inexhaustible homogeneous structures. *Discrete Mathematics*, 115 (1993), 57–63.
5. K. Böröczky, Jr.: About four-ball packings. *Mathematika*, 40 (1993), 226–232.
6. K. Böröczky, Jr.: Some extremal properties of the regular simplex. In: *Proceedings of the Conference on Intuitive Geometry, Szeged, (1994)*, 45–61.
7. K. Böröczky, Jr.: Mean projections and finite packings of convex bodies. *Monatshefte Math.*, 118 (1994), 41–54.
8. K. Böröczky, Jr., M. Henk: Radii and the Sausage Conjecture. *Canadian Mathematical Bulletin*, 38 (1995), 156–166.
9. K. Böröczky, Jr., V. Soltan: Smallest maximal snakes of translates of convex domains. *Geometriae Dedicata*, 54 (1995), 31–44.
10. K. Böröczky, Jr.: Around the Rogers-Shepard inequality. *Mathematica Pannonica*, 7 (1996), 113–130.
11. K. Böröczky, Jr., K. Böröczky: Isoperimetric problems for polytopes with given number of vertices. *Mathematika*, 43 (1996), 237–254.
12. K. Böröczky, Jr., J.M. Wills: Finite sphere packings and critical radii. *Beit. Alg. Geom.*, 38 (1997), 193–211.
13. K. Böröczky, Jr.: Lattice points in large bodies. *Rend. Circ. Mat. Palermo*, 50 (1997), 67–76.
14. K. Böröczky, Jr.: Packings of four and five balls. In: *Proceedings of the Conference on Intuitive Geometry, Budapest, (1997)*, 265–276.
15. K. Böröczky, Jr., U. Schnell: Wulff–shape for non–periodic arrangements. *Letters Math. Phys.*, 45 (1998), 81–94.

16. K. Böröczky, Jr., U. Schnell: Asymptotic shape of finite packings. *Can. Jour. Math.*, 50 (1998), 16–28.
17. K. Böröczky, Jr., U. Schnell: Quasi–Crystals and Wulff–shape. *Disc. Comp. Geom.*, 21 (1999), 421–436.
18. K. Böröczky, Jr., M. Ludwig: Approximation of convex bodies and a momentum lemma for power diagrams. *Monats. Math.*, 127 (1999), 101–110.
19. U. Betke, K. Böröczky, Jr.: Asymptotic formulae for the lattice point enumerator. *Can. Jour. Math.*, 51 (1999), 225–249.
20. K. Böröczky, Jr., W. Neumann, A. Stipsicz (eds): *Low Dimensional Topology*. J. Bolyai Series in Mathematics, Budapest, 1999.
21. K. Böröczky, Jr., M. Henk: Random Projections of Regular Polytopes. *Arch. Math.*, 73 (1999), 465–473.
22. K. Böröczky, Jr.: Polytopal approximation bounding the number of k –faces. *J. Approximation Th.*, 102 (2000), 263–285.
23. K. Böröczky, Jr.: The error of polytopal approximation with respect to the symmetric difference metric and the L_p metric. *Isr. J. Math.*, 117 (2000), 1–28.
24. K. Böröczky, Jr.: Approximation of general smooth convex bodies. *Adv. Math.*, 153 (2000), 325–341.
25. T. Bisztriczky, K. Böröczky, Jr.: Oriented matroid rigidity of multiplices. *Disc. Comp. Geom.*, 24 (2000), 177–184.
26. K. Böröczky, Jr., D.G. Larman, S. Sezgin, C. Zong: On Generalized Kissing Numbers and Blocking Numbers. *Rend. Circ. Mat. Palermo*, 65 (2000), 39–57.
27. K. Böröczky, Jr., U. Schnell, J.M. Wills: Quasicrystals, parametric density and Wulff–shape. In: *Directions in Mathematical Quasicrystals*, eds. M. Baake, R.V. Moody, CRM Monographs Series 13, AMS, 2000, 259–276.
28. K. Böröczky, Jr., G. Wintsche: Sphere packings in the regular crosspolytope. *Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* 43 (2000), 151–157.
29. T. Bisztriczky, K. Böröczky, Jr.: About the centroid body and the ellipsoid of inertia. *Mathematika*, 48 (2001), 1–13.
30. K. Böröczky, Jr.: About the error term for best approximation with respect to the Hausdorff related metrics. *Disc. Comp. Geom.* 25 (2001), 293–309.

31. V. Arhelger, U. Betke and K. Böröczky, Jr.: Large finite lattice packings. *Geometriae Dedicata*, 85 (2001), 157–182.
32. T. Bisztriczky, K. Böröczky, Jr.: On periodically cyclic Gale 4–polytopes. *Disc. Math.*, 241 (2001), 103–118.
33. K. Böröczky, Jr., G. Tardos: The longest segment in the complement of a packing. *Mathematika*, 49 (2002), 45–49.
34. K. Böröczky, Jr.: Discrete point sets in the hyperbolic plane. *Studia Sci. Math. Hung.*, 39 (2002), 21–36.
35. K. Böröczky, Jr., G. Fejes Tóth: Stability of some inequalities for three–polyhedra. *Rend. Circ. Mat. Palermo*, 70 (2002), 93–108. [ballstab.pdf](#), [ballstab.ps](#)
36. T. Réti, K. Böröczky, Jr.: Topological characterization of 2D finite cellular system. *Materials Science Forum*, 414–415 (2003), 471–482.
37. I. Bárány, K. Böröczky, Jr.: Lattice points on the boundary of the integer hull. In: (A. Bezdek, ed.), *Discrete Geometry*, Marcel Dekker, 2003, 33–48.
38. K. Böröczky, Jr., M.A. Hernández Cifre, G. Salinas Martínez: Optimizing the perimeter and the area for convex sets for prescribed circumradius and inradius. *Monatshefte Math.*, 138 (2003), 95–110.
39. K. Böröczky, Jr., G. Wintsche: Covering the sphere by equal spherical balls. In: *Discrete and Computational Geometry – The Goodman-Pollack Festschrift* (B. Aronov, S. Basu, M. Sharir, J. Pach, eds), *Algorithms and Combinatorics Vol. 25.*, Springer, 237–253, 2003.
40. K. Böröczky, Jr., J. Kollár, T. Szamuely (eds): *Higher Dimensional Varieties and Rational Points*. J. Bolyai Series, Springer-Verlag, 2003.
41. K. Böröczky, Jr.: Finite packing and covering by congruent convex domains. *Disc. Comp. Geom.*, 30 (2003), 185–193.
42. T. Bisztriczky, K. Böröczky, Jr., D.S. Gunderson: Cyclic polytopes, hyperplanes, and Gray codes. *J. Geometry*, 78 (2003), 25–49.
43. K. Böröczky, Jr., M. Reitzner: Approximation of Smooth Convex Bodies by Random Circumscribed Polytopes. *Annals of Applied Prob.*, 14 (2004), 239–273.
44. K. Böröczky, Jr.: *Finite packing and covering*. Cambridge University Press, 2004.
45. T. Réti, K. Böröczky, Jr.: *Topological Characterization of Cellular Structures*. *Acta Polytechnica Hungarica*, 1 (2004), 59–85.

46. T. Réti, K. Böröczky, Jr.: Topological characterization of finite cellular systems represented by 4-dimensional polytopes, *Materials Science Forum*, 473–474 (2005), 381–388.
47. K. Böröczky, Jr.: Finite coverings in the hyperbolic plane. *Discrete and Computational Geometry*, 33 (2005), 165–180.
48. K. Böröczky, Jr.: The stability of the Rogers-Shephard inequality. *Adv. Math.*, 190 (2005), 47–76.
49. U. Betke, K. Böröczky, Jr.: Finite lattice packings and the Wulff–shape. *Mathematika*, 52 (2005), 17–29.
50. K.J. Böröczky, T. Réti, G. Wintsche: On the combinatorial characterization of quasicrystals. *J. Geometry and Physics*, 57 (2006), 39–52.
51. K.J. Böröczky, J. Pach, G. Tóth: Planar crossing numbers of graphs embeddable in another surface. *International Journal of Foundations of Computer Science*, 17 (2006), 1005–1017.
52. K. Böröczky, K. Böröczky, Jr., G. Wintsche: Typical faces of extremal polytopes with respect to a thin three-dimensional shell. *Periodica Math. Hung.*, 53 (2006), no. 1–2, 83–102.
53. K. Böröczky, Jr., I. Fábián, G. Wintsche: Covering the crosspolytope by equal balls. *Periodica Math. Hung.*, 53 (2006), no. 1–2, 103–113.
54. K.J. Böröczky, I.Z. Ruzsa: Note on an inequality of Wegner. *Disc. Comp. Geom.*, 37 (2007), 245–249.
55. K.J. Böröczky, R. Schneider: Circumscribed Simplices of Minimal Mean Width. *Beit. Alg. Geom.*, 48 (2007), 217–224.
56. K. Böröczky, K. Böröczky, Jr.: Polytopes of minimal volume with respect to a shell - another characterization of the octahedron and the icosahedron. *Disc. Comp. Geom.*, 38 (2007), 231–241.
57. K.J. Böröczky: Polytopal approximation of smooth convex bodies. In: *Konvexgeometrie*, Oberwolfach Report No. 56/2006, 3351–3354, 2007.
58. K. Böröczky, K.J. Böröczky: A stability property of the octahedron and the icosahedron. *Publ. Math. Debrecen*, 71 (2007), 449–466.
59. K.J. Böröczky, P. Tick, G. Wintsche: Typical faces of best approximating three-polytopes. *Beit. Alg. Geom.*, 48 (2007), 521–545.

60. K.J. Böröczky, G. Wintsche: Extremal mean width when covering the one–skeleton. *Bull. LMS*, 39 (2007), 921-928.
61. K.J. Böröczky, Salvador S. Gomis, P. Tick: Volume approximation of smooth convex bodies by three-polytopes of restricted number of edges, *Monatshefte Math.*, 153 (2008), 23-48.
62. K.J. Böröczky, F. Fodor, V. Víg: Approximating 3-dimensional convex bodies by polytopes with a restricted number of edges. *Beit. Alg. Geom.*, 49 (2008), 177-193.
63. K.J. Böröczky, R. Schneider: A characterization of the duality mapping for convex bodies. *Geom. Func. Analysis (GAFA)*, 18 (2008), 657-667.
64. K. Böröczky, K.J. Böröczky, C. Schütt, G. Wintsche: Convex bodies of minimal volume, surface area and mean width with respect to thin shells. *Canadian Journal of Mathematics*, 60 (2008), 3-32.
65. K.J. Böröczky, L.M. Hoffmann, D. Hug: Expectation of mean projections of random polytopes. *Periodica Hungarica*, 57 (2008), 143-164.
66. K.J. Böröczky, F. Fodor, M. Reitzner, V. Víg: Mean width of random polytopes in a reasonably smooth convex body. *Journal of Multivariate Analysis*, 100 (2009), 2287-2295.
67. K. Böröczky, K.J. Böröczky, F. Fodor, H. Harborth, W. Kuperberg (eds): Volume in honour of Ted Bisztriczky. *Canadian Mathematical Bulletin*, vol 52 (2009), no 3.
68. K.J. Böröczky, B. Csikós: Approximation of smooth convex bodies by circumscribed polytopes with respect to the surface area. *Abhandlungen aus dem Mathematischen Seminar der Universität Hamburg*, 79 (2009), 229-264.
69. K.J. Böröczky, R. Schneider: Stable determination of convex bodies from sections. *Studia Sci. Math. Hung.*, 46 (2009), 367-376.
70. K.J. Böröczky: Stability of some interrelated geometric and functional inequalities. In: Keith Ball, Martin Henk, Monika Ludwig (eds): *Convex Geometry and its applications*, Oberwolfach Report No. 53/2009, 12-14, 2010.
71. K.J. Böröczky, D. Hug: Stability of the inverse Blaschke-Santaló inequality for zonoids. *Adv. Appl. Math.*, 44 (2010), 309-328.
72. K.J. Böröczky, B. Csikós: A new version of L. Fejes Tóth's Moment Theorem. *Studia Sci. Hung.*, 47 (2010), 230-256.
73. K.J. Böröczky: Stability of the Blaschke-Santaló and the affine isoperimetric inequalities. *Advances in Mathematics*, 225 (2010), 1914-1928. arxiv:0901.3340

74. K.J. Böröczky, R. Schneider: The mean width of circumscribed random polytopes. *CMB*, 53 (2010) 614-628. arXiv:0901.3343
75. K.J. Böröczky, F. Fodor, D. Hug: The mean width of random polytopes circumscribed around a convex body. *Journal of LMS*, 81 (2010), 499-523. arXiv:0901.3419, 8e4f8
76. K.M. Ball, K.J. Böröczky: Stability of the Prékopa-Leindler inequality. *Matematika*, 56 (2010), 339-356. arxiv:0909.3738
77. K. Böröczky, Jr.: Kövezések, elhelyezések és fedések a hiperbolikus térben. *Matematikai Lapok*, 16 (2010), 62-78.
78. K.M. Ball, K.J. Böröczky: Stability of some versions of the Prékopa-Leindler inequality. *Monatshefte Math.*, 163 (2011), 1-14. arXiv:0909.3742
79. C. Barvard, K.J. Böröczky, B. Ormos, I. Prok, L. Vena, G. Wintsche: Equality in László Fejes Tóth's triangle bound for hyperbolic surfaces. *Acta Sci. Math. (Szeged)*, 77 (2011), 669-679. arxiv:1206.3020
80. K.J. Böröczky, Oriol Serra: Remarks on the equality case of the Bonnesen inequality. *Arch. Math.*, 99 (2012), 189-199. arXiv:1205.3004
81. K.J. Böröczky, E. Lutwak, D. Yang, G. Zhang: The log-BrunnMinkowski inequality. *Advances in Math.*, 231 (2012), 1974-1997.
82. K.J. Böröczky, Péter P. Pálffy, O. Serra: On the cardinality of sumsets in torsion-free groups. *Bulletin of LMS*, 44 (2012), 1034-1041. arXiv:1009.6140, ds54c
83. K.J. Böröczky, F. Fodor, D. Hug: Intrinsic volumes of random polytopes with vertices on the boundary of a convex body. *Trans. AMS*, 365 (2013), 785-809. arXiv:1103.4978
84. K.J. Böröczky, E. Lutwak, D. Yang, G. Zhang: The logarithmic Minkowski problem. *Journal AMS*, 26 (2013), 831-852.
85. K.J. Böröczky, E. Makai, M. Meyer, S. Reisner: On the volume product of planar polar convex bodies Lower estimates with stability. *Studia Sci. Math. Hung.*, 50 (2013), 159-198.
86. K.J. Böröczky: Stronger versions of the Orlicz-Petty projection inequality. *J. Diff. Geom.*, 95 (2013), 215-247. arxiv:1105.3251
87. I.Bárány, K.J. Böröczky, G. Fejes Tóth, J. Pach (eds): *Geometry - Intuitive, Discrete, and Convex: A Tribute to László Fejes Tóth. BOLYAI SOCIETY MATHEMATICAL STUDIES*, 24, Springer, 2013.

88. F. Barthe, K.J. Böröczky, M. Fradelizi: Stability of the functional version the Blaschke-Santaló inequality. *Monatshefte Math.*, 173 (2014), 135-159. arXiv:1206.0369
89. G. Ambrus, K.J. Böröczky: Stability results for the volume of random simplices. *American Journal of Math.*, (136) 2014, 833-857.
90. K.J. Böröczky, Francesco Santos, Oriol Serra: On sumsets and convex hull. *Disc. Comp. Geom.*, 52 (2014), 705-729. arxiv:1307.6316
91. K.J. Böröczky, B. Hoffman: A note on triangulations of sum sets. *Involve, a Journal of Mathematics*, 8 (2015), 75-85.
92. K.J. Böröczky, E. Lutwak, D. Yang, G. Zhang: Affine images of isotropic measures. *J. Diff. Geom.*, 99 (2015), 407-442.
93. K.J. Böröczky, P. Hegedűs: The cone volume measure of antipodal points. *Acta Mathematica Hungarica*, 146 (2015), 449-465. arxiv:1410.1066,
94. K.J. Böröczky, M. Henk: Cone-volume measure of general centered convex bodies. *Advances Math.*, 286 (2016), 703-721.
95. K.J. Böröczky, P. Hegedűs, G. Zhu: On the discrete logarithmic Minkowski problem. *IMRN, Int. Math. Res. Not.*, 6 (2016), 1807-1838. arxiv:1409.7907
96. K.J. Böröczky: Translation invariant Minkowski valuations on lattice polytopes. In: F. Barthe, M. Henk, M. Ludwig (eds), *Oberwolfach Report No. 56/2015*, (2016), 3193-3195.
97. K.J. Böröczky, M. Henk: Cone-volume measure and stability. *Advances in Mathematics*, 306 (2017), 24-50. arXiv:1407.7272
98. K.J. Böröczky, Hai T. Trinh: The planar L_p -Minkowski problem for $0 < p < 1$. *Adv. Applied Mathematics*, 87 (2017), 58-81. arXiv:1610.07067
99. K.J. Böröczky, M. Ludwig: Valuations on Lattice Polytopes. In: *Tensor Valuations and their Applications in Stochastic Geometry and Imaging* (M. Kiderlen and E. Vedel Jensen, eds.), *Springer Lecture Notes in Math* 2177, (2017), 213-234.
100. K.J. Böröczky, D. Hug: Isotropic measures, and stronger forms of the reverse isoperimetric inequality. *Transactions of AMS*, 369 (2017), 6987-7019. arXiv:1410.4697
101. G. Ambrus, I. Bárány, K.J. Böröczky, G. Fejes Tóth, J. Pach (eds): *New Trends in Intuitive Geometry*. Bolyai Studies, Springer, 2018.
102. K.J. Böröczky, F. Fodor (eds): Volume honoring Ted Bisztriczki's, Gabor Fejes Toth's and Endre Makai's 70th birthday, *Acta Mathematica Hungarica*, 155 (2018).

103. K.J. Böröczky, M. Henk, H. Pollehn: Subspace concentration of dual curvature measures of symmetric convex bodies. *Journal of Differential Geometry*, 109 (2018), 411-429. arXiv:1604.07390
104. K. Böröczky, K.J. Böröczky, Alexey Glazyrin, Ágnes Kovács: Stability of the simplex bound for packings by equal spherical caps determined by simplicial regular polytopes. In: M.D.E. Conder, A. Deza, A.I. Weiss (eds): *Discrete Geometry and Symmetry*. Springer, 2018, 31-60. arxiv:1711.00211
105. K.J. Böröczky, F. Fodor, D. Hug: Strengthened volume inequalities for L_p zonoids of even isotropic measures. *Trans. AMS*, 371 (2019), 505-548. arXiv:1608.07084
106. K.J. Böröczky, M. Ludwig: Minkowski valuations on lattice polytopes. *Journal EMS*, 21 (2019), 163-197. arxiv:1602.01117
107. G. Bianchi, K.J. Böröczky, A. Colesanti, D. Yang: The L_p -Minkowski problem for $-n < p < 1$ according to Chou-Wang. *Adv. Math.*, 341 (2019), 493-535. arXiv:1710.04401
108. K.J. Böröczky, Á. Kovács: The isoperimetric problem for 3-polytopes with six vertices. *Annales Universitatis Scientiarum Budapestinensis de Rolando Eötvös Nominatae Sectio Mathematica*, 61 (2018), 55-67. arXiv:1901.02160
109. K.J. Böröczky: The logarithmic Minkowski problem, the logarithmic Brunn-Minkowski conjecture and relatives. *Oberwolfach Reports*. OWR_2018_54 (2019), 29-30.
110. J. Abardia, K.J. Böröczky, M. Domokos, D. Kertész: $SL(m, C)$ equivariant and translation covariant continuous tensor valuations. *J. Func. Analysis*, 276 (2019), 3325-3362. arxiv:1801.08680
111. K.J. Böröczky, F. Fodor: The L_p dual Minkowski problem for $p > 1$ and $q > 0$. *Journal of Differential Equations*, 266 (2019), 7980-8033. arxiv:1802.00933
112. G. Bianchi, K.J. Böröczky, A. Colesanti: The Orlicz version of the L_p dual Minkowski problem on S^n for $-n < p < 0$. *Adv. Applied Mathematics*, 111 (2019), 101937. arxiv:1812.05213
113. K.J. Böröczky, E. Lutwak, D. Yang, G. Zhang, Yiming Zhao: The dual Minkowski problem for symmetric convex bodies. *Adv. Math.* 356 (2019), 106805. arXiv:1703.06259
114. G. Bianchi, K.J. Böröczky, A. Colesanti: Smoothness in the L_p Minkowski problem for $p < 1$. *Journal of Geometric Analysis*, 30 (2020), 680-705. arxiv:1706.06310
115. K.J. Böröczky, E. Lutwak, D. Yang, G. Zhang, Yiming Zhao: The Gauss image problem. *Communications on Pure and Applied Mathematics*, 73 (2020), 1406-1452. arxiv:1703.06259

116. K.J. Böröczky, A. Sagmeister: Isodiametric problem on the sphere and in the hyperbolic space. *Acta Math. Hung.*, 160 (2020), 13-32. arxiv:1812.09753,
117. K.J. Böröczky, M. Matolcsi, I. Ruzsa, P. Santos, O. Serra: Triangulations and a discrete Brunn-Minkowski inequality in the plane. *Disc. Comp. Geom.* (Grunbaum issue), accepted. arXiv:1812.04117
118. K.J. Böröczky, Daniel Hug: A reverse Minkowski-type inequality. *Proc. AMS*, accepted. arxiv:1909.00782