

PUBLICATIONS

1. Sergei Abramovich, Arcadii Z. Grinshpan, and David L. Milligan, "Teaching Mathematics through Action Learning during the Covid-19 pandemic." *IMVI: Open Mathematical Education Notes* 11 (2021): 1-18.
2. Arcadii Z. Grinshpan, "Formulas and inequalities for some special functions of a complex variable," Chapter 7 in: *Advancements in Complex Analysis - From Theory to Practice*, Eds. D. Breaz and M. Rassias. Springer, 2020, 299-318; https://link.springer.com/chapter/10.1007/978-3-030-40120-7_7 .
3. Sergei Abramovich, Arcadii Z. Grinshpan, and David L. Milligan, "Teaching Mathematics through Concept Motivation and Action Learning." *Education Research International*, Research Article (13 pages), Article ID 3745406, Volume 2019 (2019); <https://doi.org/10.1155/2019/3745406> .
4. Arcadii Z. Grinshpan, "An inequality for multiple convolutions with respect to Dirichlet probability measure." *Adv. in Appl. Math.* 82:1 (2017): 102-119; <http://dx.doi.org/10.1016/j.aam.2016.08.001>.
5. G. Fox, S. Campbell, A. Grinshpan, X. Xu, J. Holcomb, C. Beneteau, J. Lewis, K. Ramachandran, "Implementing Projects in Calculus on a Large Scale at the University of South Florida." *Journal of STEM Education*. 18:3 (2017): 30-38; <https://www.jstem.org/jstem/index.php/JSTEM/article/view/2104/1868> .
6. Sergei Abramovich, Jonathan Burns, Scott Campbell, and Arcadii Z. Grinshpan, "STEM Education: Action learning in primary, secondary, and post-secondary mathematics." *IMVI: Open Mathematical Education Notes* 6 (2016): 65-106.
7. Arcadii Z. Grinshpan, "Weighted convolutions associated with probability functions and Bernstein polynomials." *Integral Transforms Spec. Funct.* 26:12 (2015): 985-999; <http://dx.doi.org/10.1080/10652469.2015.1075987>.
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9. Arcadii Z. Grinshpan, "Weighted norm inequalities for convolutions, differential operators, and generalized hypergeometric functions." *Integral Equations Operator Theory* 75:2 (2013): 165-185; DOI:10.1007/s00020-012-2013-5.
10. Arcadii Z. Grinshpan, "Volterra convolution equations: solution - kernel connection." *Integral Transforms Spec. Funct.* 23:4 (2012): 263-275; DOI:10.1080/10652469.2011.575072.

11. Sergei Abramovich and Arcadii Z. Grinshpan, \Bridging K-12 and university mathematics: building the staircase from the top." *IMVI: Open Mathematical Education Notes 2* (2012): 1-21.
12. Arcadii Z. Grinshpan, \Weighted inequalities and negative binomials." *Adv. in Appl. Math.* 45:4 (2010): 564-606; <http://dx.doi.org/10.1016/j.aam.2010.04.004>.
13. Arcadii Z. Grinshpan, \A family of integral equations with restricted solutions." *Integral Transforms Spec. Funct.* 20:10 (2009): 723-735; DOI:10.1080/10652460902781612.
14. Arcadii Z. Grinshpan, \Inequalities for classical orthogonal polynomials." *AJSE - Mathematics* 1:1 (2009): 83-94.
15. Sergei Abramovich and Arcadii Z. Grinshpan, \Teaching mathematics to non-mathematics majors through applications." *PRIMUS: Problems, Resources, and Issues in Mathematics Undergraduate Studies* 18:5 (2008): 411-428; DOI:10.1080/10511970601182772.
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BOOK

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Selected Presentations

1. David L. Milligan, Arcadii Z. Grinshpan, and Sergei Abramovich, "Action Learning of Mathematics: The Case of Pandemic." Seminar series: Disciplined Inquiry in Education (SUNY Potsdam, 2021).
2. Sergei Abramovich, Shelly Arora, and Arcadii Z. Grinshpan, "Action learning breaks out mindset in mathematics." Indo-US global Expo Summit, Indus Foundation (Hyderabad, Telangana, India, 2017).
3. Arcadii Z. Grinshpan, "A multiple convolution inequality." SEAM XXXII (University of South Florida, Tampa, 2016).
4. Shelly Arora and Arcadii Z. Grinshpan, "Convolutions in Time Dependent Heat Conduction Equations." International Conference in Mathematical Analysis and Applications (IIT Roorkee, Roorkee, India, 2016).
5. Arcadii Z. Grinshpan, "Weighted norm inequalities for some special functions." International Symposium on Orthogonal Polynomials, Special Functions & Applications (NIST, Gaithersburg, Maryland, 2015).
6. Shelly Arora and Arcadii Z. Grinshpan, "Applications of Weighted Convolution Inequalities to PDEs." International Symposium on Orthogonal Polynomials, Special Functions & Applications (NIST, Gaithersburg, Maryland, 2015).
7. Arcadii Z. Grinshpan, "Extremal properties of weighted convolutions." Joint Mathematics Meeting, AMS and MAA (San Antonio, Texas, 2015).
8. Arcadii Grinshpan, "Interdisciplinary Mathematics in STEM Education: Undergraduate Retention and Research." NSF STEP Grantees Meeting: Identifying Best Practices (Washington, D.C., 2014).
9. Arcadii Grinshpan, "Mathematics Umbrella Model in STEM Education." NSF STEP Grantees Meeting: Identifying Best Practices (Washington, D.C., 2013).
10. Jonathan Burns and Arcadii Z. Grinshpan, "Multiparameter binomial sums." AMS Meeting (University of South Florida, Tampa, 2012).
11. Sergei Abramovich and Arcadii Z. Grinshpan, "Promoting STEM education by bridging K-12 and university mathematics." The New York State STEM Education Collaborative (Syracuse University, 2012).

12. Arcadii Z. Grinshpan, "Volterra convolution equations, power series modifications, and related inequalities." AMS Meeting (Georgia Southern University, Statesboro, 2011).
13. Arcadii Z. Grinshpan, "Convolutions and integro-differential inequalities." International Conference on Differential Equations and Dynamical Systems (University of South Florida, Tampa, 2010).
14. Arcadii Z. Grinshpan, "Weighted seminorm inequalities for power series." Analysis Seminar (Drexel University, Philadelphia, 2010).
15. Arcadii Z. Grinshpan, "A seminorm inequality and applications." SEAM XXV (University of South Florida, Tampa, 2009).
16. Sergei Abramovich and Arcadii Z. Grinshpan, "Teaching mathematics through applications to non-mathematics majors across disciplines: an apprenticeship approach." International Congress on Mathematical Education (Copenhagen, Denmark, 2004).
17. Arcadii Z. Grinshpan, "Integral inequalities and applications." Analysis Seminar (UC Berkeley, 2004).
18. Arcadii Z. Grinshpan, "New general inequalities and a positive kernel." Day of Function Theory in Germany and International Conference on Geometric Function Theory dedicated to Herbert Grötzsch (1902-1993) (Martin-Luther-University, Halle (Saale), Germany, 2002).
19. Arcadii Z. Grinshpan, "Inequalities generated by the gamma function." Analysis Seminar (UC Berkeley, 2001).
20. Arcadii Z. Grinshpan, "A mix of pure and applied ideas." MAA, Florida Section (University of South Florida, Tampa, 1999).
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22. Arcadii Z. Grinshpan, "On one famous problem." MAA, Florida Section (Eckerd College, St. Petersburg, Florida, 1997).
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(SAE International Engineering Society, Milwaukee, Wisconsin, 1993).
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30. A. Z. Grinshpan, "The exponentiation method and its applications."
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31. A. Z. Grinshpan, "On coefficients of some classes of univalent functions."
All-Union Conference on the Theory of Functions of a Complex Variable
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