



Member of the Hungarian Academy of Sciences, 1993  
 G. Alexits Award (Janos Bolyai Mathematical Society, 1984)  
 G. Grünwald Award (Janos Bolyai Mathematical Society, 1979)  
 Miklos Schweitzer Contest, 1st prize 1978, 1st prize 1979, 2nd prize 1976,

#### Recent Talks:

Convexity of harmonic measures, SEAM, Tampa, 2016 (plenary talk)  
 The real world is complex, Copenhagen, 2015 (plenary talk)  
 International Conference on Applied Mathematics 2014, Hong Kong, 2014 (plenary talk)  
 Constructive Functions, Nashville, USA, 2014 (plenary talk)  
 Random matrices and Jacobi operators, Mittag-Leer Institute, Stockholm, Sweden, 2014 (invited talk)  
 XIth international conference on approximation optimization in the Caribbeans, Puebla, Mexico, 2013 (plenary talk)  
 International Workshop on Approximation and Applications (IWATA); Rifredda, Italy, 2013 (plenary talk)  
 Erdős Centennial, Budapest, Hungary, 2013 (plenary talk)  
 Numbers, Functions and Equations, Visegrad, Hungary, 2013 (invited talk)  
 AMS Special Meeting on Approximation and Orthogonal Polynomials, Oxford, Mississippi, USA, 2013 (invited talk)  
 AMS Special Meeting on Complex Analysis and Operator Theory, Tampa, FL, 2012 (invited talk)  
 New Trends in Approximation Theory, Ein Gedi, Israel, 2012 (plenary talk)  
 ICREA Conference on Approximation Theory and Fourier Analysis, Barcelona, Spain, 2011 (plenary talk)  
 Recent developments in Functional Analysis and Approximation Theory, Lecce, Italy, 2011 (plenary talk)  
 Harmonic Analysis and Approximations, V., Tsaghadzor, Armenia, 2011 (plenary talk)  
 11th Orthogonal Polynomials, Special Functions and Applications (OPSFA), Madrid, Spain, 2011 (plenary talk)  
 Complex Analysis, Operator Theory, and Approximation, Linz, Austria, 2011 (plenary talk)  
 Special functions and orthogonal polynomials, FOCM, Budapest, Hungary, 2011 (invited talk)

#### Recent Grants:

National Science Foundation, DMS 1564541, 2016{2018  
 National Science Foundation, DMS 1265375, 2013{2015

#### Research papers:

192 The Gauss-Lucas theorem in an asymptotic sense, *Bull. London Math. Soc.*, **48**(2016), 848{854.  
 191 Barry Simon and the Janos Bolyai International Mathematical Prize, *Acta Arithmetica*, **149**(2016), 263{273  
 190 (with Z. Daroczy) Remarks on a functional equation, *Acta Arithmetica*, **81**(2015), 527{531.  
 189 (with T. Bloom, N. Levenberg and F. Wielonski) Modified logarithmic potential theory and applications, *International Mathematics Research Notices* 2016; doi: 10.1093/imrn/rnw059  
 188 Universality under Szegő's condition, *Bull. London Math. Soc.*, **59**(2016), 211-224.  
 187 (with A. Danielyan) A converse to a theorem of Salem and Zygmund, *Bull. London Math. Soc.*, **140**(2016), 260{272.  
 186 A subharmonicity property of harmonic measures, *Acta Arithmetica*, **144**(2016), 2073{2079.  
 185 (with T. Danka) Christoffel functions with power type weights, *Acta Arithmetica* (to appear)  
 185 Polynomials with zeros on systems of curves, *Acta Arithmetica* (Szeged), **81**(2015), 151{175.

- 180 (with P. Nevai) Christoffel functions for weights with jumps, *CA*, **42**(2015), 265{280.
- 179 (with B. Nagy and S. Kalmykov) Asymptotically sharp Markov and Schur inequalities on general sets, *Complex Anal. Oper. Theory*, **9**(2015), 1287{1302.
- 178 Bernstein and Markov type inequalities for trigonometric polynomials on general sets, *Complex Anal. Oper. Theory*, doi:10.1093/imrn/rnu030
- 177 (with G. Nagy) A convexity property of discrete random walks, *Complex Anal. Oper. Theory*, (to appear)
- 176 (with B. Nagy) Riesz-type inequalities on general sets, *Complex Anal. Oper. Theory*, **416**(2014), 344-351.
- 175 (with P. Yuditskii) On a conjecture of Widom, *Complex Anal. Oper. Theory*, **190**(2015), 50{61.
- 174 Some problems of A. Kroo on multiple Chebyshev polynomials, *Complex Anal. Oper. Theory*, **414**(2014), 61{67.
- 173 (with T. Varga) A sharp  $L^p$ -Bernstein inequality on finitely many intervals *Complex Anal. Oper. Theory*, **79**(2013), 401{421.
- 172 Erdos on polynomials, *Bolyai Society Mathematical Studies*, **25**(2013), 683{709.
- 171 Approximation by homogeneous polynomials, *Complex Anal. Oper. Theory*, **174**(2013), 192{205. DOI 10.1016/j.jat.2013.07.005
- 170 Chebyshev polynomials on compact sets, *Complex Anal. Oper. Theory*, **40**(2014), 511{524. DOI 10.1007/s11118-013-9357-6
- 169 A note on rational  $L^p$  approximation on Jordan curves, *Complex Anal. Oper. Theory*, **13**(2013), 425-431.
- 168 Asymptotics of Christoffel functions on arcs and curves, *Complex Anal. Oper. Theory*, **252**(2014), 114{149.
- 167 (with E. Lundberg) Lemniscate growth, *Complex Anal. Oper. Theory*, **3**(2013), 45{62, DOI 10.1007/s13324-012-0038-1
- 166 Bernstein type inequalities, *Complex Anal. Oper. Theory*, **164**(2012), 1390-1401, doi:10.1016/j.jat.2012.03.002
- 165 Normality of orthogonal polynomials,

- 147 (with P. P. Varju), Polynomials with prescribed zeros and small norm, *A*  $\mathbb{R}$ , (Szeged) **73**(2007), 593{612
- 146 (with L. Golinskii) Orthogonal polynomials from Jacobi to Simon, Spectral Theory and Mathematical Physics: A Festschrift in Honor of Barry Simon's 60th Birthday: Ergodic Schrödinger Operators, Singular Spectrum, Orthogonal Polynomials, and Inverse Spectral Theory, Proceedings of Symposia in Pure Mathematics, AMS, Providence 2007, pp. 821{874.
- 145 Orthogonal polynomials, *A*  $\mathbb{R}$ , **1**(2005), 70{125.
- 144 Equilibrium measures and polynomials, Proceedings of the 4th European Congress of Mathematics, Stockholm, Sweden, 2004, A. Laptev editor, European Mathematical Society, 2005, 501{515.
- 143 (with F. Tookos) Markov inequality and Green functions, *Studia Mathematica*, Serie II, **76**(2005), 91{102.
- 142 (with B. Nagy) Sharpening of Hilbert's lemniscate theorem, *A*  $\mathbb{R}$ , **96**(2005), 191{223.
- 141 (with L. Baratchart and R. Kustner) Zero distribution via orthogonality *A*  $\mathbb{R}$ , **55**(2005), 1455{1499.
- 140 (with B. Simon) Limits of zeros of orthogonal polynomials on the circle, *A*  $\mathbb{R}$ , **278**(2005), 1615{1620.
- 139 (with P. Nevai) Denisov's theorem on recurrence coefficients, *A*  $\mathbb{R}$ , **127**(2004), 240{245.
- 138 (with L. Carleson) Hölder continuity of Green's functions, *A*  $\mathbb{R}$ , **70**(2004), 557{608.
- 137 (with L. P. Bos, A. Brudnyi and L. Levenberg), Tangential Markov inequalities on exponential curves, *A*  $\mathbb{R}$ , **19**(2003), 339{354.
- 136 Approximation on compact subsets of  $\mathbb{R}^3$ , *Journal of Approximation Theory*, **2001**, Internat. Ser. Num. Math., **142**(2002), 203{274.
- 135 How to prove results for polynomials on several intervals? *A*  $\mathbb{R}$ , **397**{410, DARBA, So a, 2002
- 134 Sets with minimal order Markov factors, *Studia Mathematica*, **34**(2002), 169{183.
- 133 On Markov's inequality, *A*  $\mathbb{R}$ , **18**(2002), 427{441.
- 132 (with D. Benkő) sets with interior extremal points for the Markov inequality, *A*  $\mathbb{R}$ , **110**(2001), 261{265.
- 131 Potential theoretical methods in approximation, *Bolyai Society Mathematical Studies*, **11**, Budapest, 2002, pp. 687{703.
- 130 Asymptotics for Christoffel functions with varying weights *A*  $\mathbb{R}$ , **25**(2000), 322-351.
- 129 Polynomial inverse images and polynomial inequalities *A*  $\mathbb{R}$ , **187**(2001), 139{160.
- 128 Asymptotics for Christoffel functions for general measures on the real line, *A*  $\mathbb{R}$ , **81**(2000), 283{303.
- 127 (with G. Mastroianni) Best approximation and moduli of smoothness for doubling weights *A*  $\mathbb{R}$ , **110**(2001), 180-199.
- 126 (with G. Mastroianni) Jackson type inequalities for doubling weights, II, *A*  $\mathbb{R}$ , **5**(1999), 101{116.
- 125 Orthogonal polynomials with respect to varying weights, Proc. conf. Sevilla, Spain, 1997, Ed. A. Duran, *A*  $\mathbb{R}$ , **99**(1998), 373{385.
- 124 Counterexample to a problem in tensor product approximation, *A*  $\mathbb{R}$ , **94**(1998), 300{305.
- 123 (with G. Mastroianni) Jackson type inequalities for doubling and  $A_p$  weights, Proc. Conference in Maratea, Italy, 1996, *Studia Mathematica*, Serie II, **52**(1998), 83{99.



- 87 (with S.M. Mazhar) Approximation of continuous functions by  $T$ -means of Fourier series, *A* **60**(1990), 174{182.
- 86 (with E.B. Sa) Behaviour of polynomials of best uniform approximation, *A* **316**(1989), 567{593.
- 85 (with E.B. Sa) Polynomial approximation of piecewise analytic functions, *e* **39**(1989), 487{498.
- 84 (with H.P. Blatt and E.B. Sa) The distribution of extreme points in best polynomial approximation, *A* **5**(1989), 357{370.
- 83 (with Z. Ditzian)  $K$ -functionals and weighted moduli of smoothness, *A* **63**(1990), 3{29.
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- 81 Solution to two problems in inverse interpolation, *A* **20**(1990), 243{249.
- 80 Sharp converse theorem of  $L^p$ -polynomial approximation, *A* **4**(1988), 419{433.
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- 78 (with J. Csirik) On-line algorithms for a dual version of bin packing, *A* **21**(1988), 163{167.
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- 76 (with Z. Ditzian)  $K$ -functionals and moduli of smoothness with applications, 1986, Acad. Press, New York 1986, 327{330.
- 75 (with A. Mate and P. Nevai) Twisted difference operators and perturbed Chebyshev polynomials, *A* **57**(1988), 301{331.
- 74 (with P. Nevai) Orthogonal polynomials and their zeros, *A* (Szeged), **53**(1989), 99{104.
- 73 (with Z. Ditzian, D. S. Lubinsky and P. Nevai) Polynomial approximation with exponential weights, *A* **50**(1987), 165{175.
- 72 (with P. Nevai) Sharp Nikolskii inequalities with exponential weights, *A* **13**(1987), 261{267.
- 71 A conjecture of G. Petruska, *A* **39**(1990), 261{263.
- 70 (with A. Mate and P. Nevai) Asymptotics for zeros of orthogonal polynomials associated with infinite intervals, *e* **33**(1986), 303{310.
- 69 (with P. Nevai) Weighted polynomial inequalities, *A* **2**(1986), 113{127.
- 68 (with A. Pinkus) One-sided  $L$ -approximation, *B* **29**(1986), 84{90.
- 66{67 (with A. Mate and P. Nevai) Extensions of Szegő's theory of orthogonal polynomials, *A* **3**(1987), 51{72, 73{96
- 65 (with Z. Ditzian)  $K$ -functionals and best polynomial approximation in weighted  $L^p(\mathbf{R})$ , *A* **46**(1986), 38{41.
- 64 (with A. Mate and P. Nevai) Asymptotics for the greatest zero of orthogonal polynomials, *A* **17**(1986), 745{751.
- 63 (with A. Mate and P. Nevai) Mean Cesaro summability of orthogonal polynomials, Proc. Conf. Varna, Publ. House Bulgarian Acad. Sci., Sofia 1984, 588{599.
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- 60 (with A. Mate and P. Nevai) Oscillatory behaviour of orthogonal polynomials, *A* **96**(1986), 261{268.
- 59 (with A. Mate and P. Nevai) Necessary conditions for weighted mean convergence of Fourier series in orthogonal polynomials, *A* **46**(1986), 314{322.
- 58 (with A. Mate and P. Nevai) Strong and weak convergence of orthogonal polynomials, *A* **109**(1987), 239{282.



- 21 On two open problems of contractive mappings, *Acta Arithmetica* (Beograd), (N.S.) **34(48)**(1983), 239{242.
- 20 On the approximation of holomorphic functions in the unit ball of  $\mathbb{C}^n$ , *Acta Arithmetica*, Proc. Conf. in Varna, 1981, Publishing House of the Bulgarian Academy of Sciences, Sofia 1983, 564{574.
- 19 On the divergence of Fourier series, *Acta Arithmetica* (Debrecen), **29**(1982), 251{264.
- 18 Strong approximation by the de la Vallee Poussin and Abel means of Fourier series, *Acta Arithmetica*, (N.S.) **45**(1981), 85{108.
- 17 Notes on Fourier series in homogeneous Banach spaces, *Acta Arithmetica*, **8**(1982), 321{333.
- 16 Notes on Fourier series: Strong approximation, *Acta Arithmetica*, **43**(1985), 105{111.
- 15 Summability in the classes  $H^1$ , *Acta Arithmetica*, **33**(1983), 207{213. (Russian)
- 14 On a possible generalization of strong approximation results, *Acta Arithmetica*, Proc. Conf. in Gdansk, 1979, Polish Sci. Publ. and North Holland, 1981, 804{820.
- 13 Comparison of "uniform" and "almost everywhere" summability properties, *Acta Arithmetica*, **12**(1977), 429{443.
- 12 Approximation by convolution operators, *Acta Arithmetica*, **8**(1972), 151{163.
- 11 On the continuity of functions in connection with a problem of V. G. Krotov, *Acta Arithmetica*, **7**(1981), 81{84.
- 9{10 On the strong approximation by the  $(C, \alpha)$  means of Fourier series, I{II., *Acta Arithmetica*, **6**(1980), 57{85, **6**(1980), 165{184.
- 8 Strong approximation and the behaviour of Fourier series, *Acta Arithmetica*, Proc. Conf. in Oberwolfach, ISNM **60** Birkhauser Verlag, Basel 1981, 351{364.
- 7 On the strong approximation of Fourier series, *Acta Arithmetica*, **35**