Curriculum Vitae

Personal Information:

Name:	Andrew Rosalsky	
Position:	Professor Emeritus of Statistics	
Born:	July 1948	
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Degrees:

А.В.,	Indiana University, 1970, Mathematics
А.М.,	Indiana University, 1972, Mathematics
Ph.D.,	Rutgers University, 1978, Statistics

Professional Experience:

Indiana University,	Visiting Assistant Professor of Mathematics, 1977-1978
University of Florida,	Assistant Professor of Statistics, 1978-1984
	Associate Professor of Statistics, 1984-1990
	Professor of Statistics, 1990-May 15, 2018
	Professor Emeritus of Statistics, May 16, 2018-present

Research Interests:

- Probability Theory
- Strong and Weak Limit Theorems for Sums of Random Variables and Sums of Banach Space Valued Random Elements Under Various Dependence Structures
- Laws of Large Numbers
- Iterated Logarithm Laws
- Convergence Rates of Random Series
- Limiting Behavior of Efron's Nonparametric Bootstrap
- Limiting Behavior of the Largest Entries of Sample Correlation Matrices
- Limiting Behavior of Sums of Doubly-Indexed Banach Space Valued Random Elements (Random Fields)

Refereed Research Publications:

- A. Rosalsky, "On the converse to the iterated logarithm law", <u>Sankhyā, Ser.</u> A, 42, 103-108 (1980).
- A. Rosalsky and H. Teicher, "A limit theorem for double arrays", <u>Ann. Probability</u>, 9, 460-467 (1981).
- 3. A. Rosalsky, "Lim sup behavior of sums of geometrically weighted i.i.d. random variables", Stochastic Processes Appl., **11**, 297-300 (1981).
- A. Rosalsky, "On the growth of a random walk centered at a median", <u>Sankhyā Ser.</u> A, 43, 111-115 (1981).
- A. Rosalsky, "A generalization of the iterated logarithm law for weighted sums with infinite variance", <u>Z. Wahrscheinlichkeitstheorie und verw. Gebiete</u>, 58, 351-372 (1981).
- M.C.K. Yang, D.D. Wackerly, and A. Rosalsky, "Optimal stopping rules in proofreading", J. Appl. Probability, 19, 723-729 (1982).
- A. Rosalsky, "Almost certain limiting behavior of the tail series of independent summands", <u>Bull. Inst. Math. Acad. Sinica</u>, **11**, 185-208 (1983).
- A. Rosalsky, "A remark on the fluctuation behavior of i.i.d. Poisson random variables", <u>Statistics Probability Lett.</u>, 1, 181-182 (1983). ("Acknowledgement of priority", <u>Statistics Probability Lett.</u>, 2, 117 (1984).)

- A. Rosalsky, "Some central limit, Glivenko-Cantelli type theorems for empirical distribution functions of sample means", <u>Calcutta Statist. Assoc. Bull.</u>, **32**, 9-21 (1983).
- A. Rosalsky, "A note on a useful probability lemma with application to the theory of sums of pairwise i.i.d. random variables", <u>J. Organizational Behaviour and Statist.</u>, 2, 211-221 (1985).
- A. Rosalsky, "On the number of successes in independent trials", <u>Sankhyā, Ser.</u> A, 47, 380-391 (1985).
- A. Rosalsky, "A strong law for weighted averages of random variables and the Komlós-Révész estimation problem", <u>Calcutta Statist. Assoc. Bull.</u>, **35**, 59-66 (1986).
- A. Adler and A. Rosalsky, "Some general strong laws for weighted sums of stochastically dominated random variables", <u>Stochastic Anal. Appl.</u>, 5, 1-16 (1987).
- A. Rosalsky, "Strong stability of normed weighted sums of pairwise i.i.d. random variables", <u>Bull. Inst. Math. Acad. Sinica</u>, 15, 203-219 (1987).
- A. Adler and A. Rosalsky, "On the strong law of large numbers for normed weighted sums of i.i.d. random variables", <u>Stochastic Anal. Appl.</u>, 5, 467-483 (1987).
- A. Rosalsky, "A strong law for a set-indexed partial sum process with applications to exchangeable and stationary sequences", <u>Stochastic Processes Appl.</u>, 26, 277-287 (1987).
- A. Rosalsky, "A generalization of the global limit theorems of R.P. Agnew", <u>Internat. J. Math. & Math. Sci.</u>, **11**, 365-374 (1988). ("Addendum", <u>Internat. J.</u> <u>Math. & Math. Sci.</u>, **11**, 584 (1988).)
- A. Adler, A. Rosalsky, and R.L. Taylor, "Strong laws of large numbers for weighted sums of random elements in normed linear spaces", <u>Internat. J. Math.</u> <u>& Math. Sci.</u>, **12**, 507-529 (1989).
- A. Adler and A. Rosalsky, "On the Chow-Robbins "fair" games problem", <u>Bull. Inst. Math. Acad. Sinica</u>, 17, 211-227 (1989).
- 20. A. Adler and A. Rosalsky, "Some generalized central limit theorems for weighted sums with infinite variance", <u>Calcutta Statist. Assoc. Bull.</u>, **38**, 27-42 (1989).
- A. Adler and A. Rosalsky, "A note on the centering constants in the Adler-Rosalsky central limit theorem", <u>Calcutta Statist. Assoc. Bull.</u>, **39**, 217-221 (1990).

- A. Adler and A. Rosalsky, "On the weak law of large numbers for normed weighted sums of i.i.d. random variables", <u>Internat. J. Math. & Math. Sci.</u>, 14, 191-202 (1991).
- A. Adler, A. Rosalsky, and R.L. Taylor, "A weak law for normed weighted sums of random elements in Rademacher type p Banach spaces", J. Multivariate Analysis, 37, 259-268 (1991).
- 24. A. Adler and A. Rosalsky, "On the norming constants in the Feller-Khintchine-Lévy central limit theorem", <u>Calcutta Statist. Assoc. Bull.</u>, **41**, 145-150 (1991).
- A. Adler, A. Rosalsky, and R.L. Taylor, "On the Azlarov-Volodin theorem for sums of i.i.d. random elements in Banach spaces", <u>Stochastic Anal. Appl.</u>, 10, 501-505 (1992).
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- A. Rosalsky, "On the oscillation behavior of essentially divergent series of independent summands", Sankhyā, Ser. A, 54, 232-240 (1992).
- A. Rosalsky, "On the almost certain limiting behavior of normed sums of identically distributed positive random variables", <u>Statistics Probability Lett.</u>, 16, 65-70 (1993).
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- E. Nam and A. Rosalsky, "On the almost certain rate of convergence of series of independent random variables", <u>J. Korean Statist. Soc.</u>, 24, 91-109 (1995).
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- 34. E. Nam and A. Rosalsky, "On the rate of convergence of series of random variables", <u>Teor. Ĭmovīrnost. ta Mat. Statist.</u> (Kiev University), **52**, 120-131 (1995) (in Ukrainian). English translation in <u>Theory Probability Math. Statist.</u> (American Mathematical Society), **52**, 129-140 (1996).

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- X. Wang, Y. Wu, and A. Rosalsky, "Complete convergence for arrays of rowwise widely orthant dependent random variables and its applications", <u>Stochastics</u>, 89, 1228-1252 (2017).
- 126. D. Li, H.-Y. Liang, and A. Rosalsky, "A probability inequality for sums of independent Banach space valued random variables", <u>Stochastics</u>, **90**, 214-223 (2018).
- 127. D. Li, H.-Y. Liang, and A. Rosalsky, "An extension of Feller's strong law of large numbers", Statistics Probability Lett., 132, 83-90 (2018).

- 128. S. Chang, D. Li, Y. Qi, and A. Rosalsky, "A method for estimating the power of moments", J. Inequal. Appl., 2018, Paper No. 54, 14 pp. https://doi.org/10.1186/ s13660-018-1645-7 (2018).
- 129. S. Chang, D. Li, and A. Rosalsky, "Strong laws of large numbers for the sequence of maximum of partial sums of i.i.d. random variables", <u>Probab. Math. Statist.</u> (to appear).
- 130. Y. Wu, X.J. Wang, and A. Rosalsky, "Complete moment convergence for arrays of rowwise widely orthant dependent random variables", <u>Acta Math. Sinica, English Ser.</u> (to appear).
- 131. T.K. Chandra, D. Li, and A. Rosalsky, "Some mean convergence theorems for arrays of rowwise pairwise negative quadrant dependent random variables", J. Inequal. Appl. (to appear).

Other Publications:

- Book Review: A. Rosalsky, <u>Measure Theory and Probability</u> by Malcolm Adams and Victor Guillemin (Wadsworth, Belmont, California (1986)), <u>J. Amer. Statist.</u> <u>Assoc.</u>, **82**, 700-701 (1987).
- Book Review: A. Rosalsky, <u>Measure Theory</u> by J.L. Doob (Springer-Verlag, New York (1994)), <u>J. Amer. Statist. Assoc.</u>, **89**, 1566-1567 (1994).
- A. Rosalsky and R. Scheaffer, "Axioms of Probability", in: <u>Encyclopedia of Biostatistics</u>, Vol. 1 (P. Armitage and T. Colton (Eds.)), pp. 233-234, John Wiley, New York, 1998 (invited entry).
- Book Review: A. Rosalsky, Probability Theory and Mathematical Statistics edited by I.A. Ibragimov and A. Yu. Zaitsev (Gordon and Breach, Amsterdam, The Netherlands (1996)), J. Amer. Statist. Assoc., 94, 1387-1388 (1999).
- A. Rosalsky, "The Laws of Large Numbers", in: <u>International Encyclopedia of Statistical Science</u> (M. Lovric (Ed.)), pp. 726-729, Springer-Verlag, Berlin, 2011 (invited entry).

Citation Information:

- MathSciNet reports 443 citations by 241 authors
- Web of Science reports 456 citations
- Research Gate reports 823 citations
- Mendeley reports 517 citations

• Google Scholar reports 1103 citations

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- Eunwoo Nam (Cheongjoo, Republic of Korea)
- Bao-Em Nguyen (Thunder Bay, Ontario, Canada)
- Manuel Ordóñez Cabrera (Sevilla, Spain)
- Robert Parker (Gainesville, Florida)

- Brett Presnell (Gainesville, Florida)
- Yongcheng Qi (Duluth, Minnesota)
- Joseph Rosenblatt (Urbana, Illinois)
- M. Sreehari (Vadodara, India)
- Jordan Stoyanov (Sofia, Bulgaria)
- George Stoica (St. John, New Brunswick, Canada)
- Dominik Szynal (Lublin, Poland)
- Robert L. Taylor (Athens, Georgia and Clemson, South Carolina)
- Henry Teicher (New Brunswick, New Jersey)
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- Andrei I. Volodin (Kazan, Tatarstan, Russian Federation and Regina, Saskatchewan, Canada)
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- Kuo-Lung Wang (Hsinchu, Taiwan, Republic of China)
- Xuejun Wang (Hefei, People's Republic of China)
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- Fu Xing Zhang (Shaoyang, Hunan, People's Republic of China)
- Mingyang Zhang (Guangzhou, People's Republic of China)

Papers Presented (Invited or International):

- "On the number of successes in independent trials", Eastern Regional Meeting of the Institute of Mathematical Statistics in Orlando, Florida, March 11-14, 1984 (invited paper) (presented by A. Rosalsky).
- "A strong law for weighted averages of random variables and the Komlós-Révész estimation problem", Advanced Research Conference on Weighted Distributions and Related Weighted Methods for Statistical Analysis and Interpretation of Encountered Data, Observational Studies, Representativeness Issues, and Related Inferences held at Pennsylvania State University, November 9-13, 1985 (invited paper) (presented by A. Rosalsky).
- "The undergraduate statistics major at the University of Florida": invited participant in a panel discussion titled "The State of the Undergraduate Statistics Major", American Statistical Association Meeting in Boston, Massachusetts, March 27-30, 1988 (presented by A. Rosalsky).
- "On the oscillation behavior of essentially divergent series of independent summands", Fifth International Vilnius Conference on Probability Theory and Mathematical Statistics (Vilnius, U.S.S.R., June 26-July 1, 1989) (invited participant) (presented by A. Rosalsky).
- "Strong laws of large numbers for weighted sums of random elements in normed linear spaces", International Symposium on Applied Probability and meeting of the Institute of Mathematical Statistics in Sheffield, England, August 16-19, 1989 (with A. Adler and R.L. Taylor) (presented by A. Adler).
- "An ergodic-type theorem à la Feller for a strictly stationary continuous time process", Conference on Convergence in Ergodic Theory and Probability held at The Ohio State University, June 23-26, 1993 (invited paper) (presented by A. Rosalsky).
- "On the rate of convergence of series of random variables", The Eighth Japan and Korea Joint Conference of Statistics (Okayama, Japan, October 2-5, 1994) (with E. Nam) (presented by E. Nam).
- "Some weak laws of large numbers for arrays of Banach space valued random elements", XVII Seminar on Stability Problems of Stochastic Models (Kazan, Tatarstan, Russia, June 19-26, 1995)(with A. Adler and A.I. Volodin) (presented by A.I. Volodin).
- "On the rate of convergence of series of Banach space valued random elements", Second World Congress of the International Federation of Nonlinear Analysts (Athens, Greece, July 9-17, 1996) (with J. Rosenblatt) (invited paper) (presented by A. Rosalsky).

- "The functional law of the iterated logarithm for the empirical process based on sample means", Bernoulli Society for Mathematical Statistics & Probability: 4th World Congress (Vienna, Austria, July 26-31, 1996) (with J.H.J. Einmahl) (presented by J.H.J. Einmahl).
- "On convergence of series of independent random elements in Banach spaces", 22nd European Meeting of Statisticians and 7th Vilnius Conference on Probability Theory and Mathematical Statistics (Vilnius, Lithuania, August 12-18, 1998) (with E. Nam and A.I. Volodin) (presented by A.I. Volodin).
- "On complete convergence for arrays of rowwise independent random elements in Banach spaces", 22nd European Meeting of Statisticans and 7th Vilnius Conference on Probability Theory and Mathematical Statistics (Vilnius, Lithuania, August 12-18, 1998) (with T. -C. Hu, D. Szynal, and A.I. Volodin) (presented by A.I. Volodin).
- "A nontraditional law of the iterated logarithm", Third Ukrainian-Scandinavian Conference in Probability and Statistics (Kiev, Ukraine, June 8-12, 1999) (with O. Klesov) (presented by O. Klesov).
- "Strong limit theorems for bootstrapped means", Second International Conference on Mathematical Methods in Reliability (MMR' 2000: Methodology, Practice and Inference) (Bordeaux, France, July 4-7, 2000) (with S.E. Ahmed, D. Li, and A.I. Volodin) (presented by S.E. Ahmed).
- "A weak law with random indices for randomly weighted sums of random elements in martingale type *p* Banach spaces", Third World Congress of the International Federation of Nonlinear Analysts (Catania, Sicily, Italy, July 18-26, 2000) (with M. Sreehari) (invited paper) (presented by A. Rosalsky).
- "On the Golden Ratio, strong law, and first passage problem", Southern Ontario Matrices and Statistics Days (Windsor, Ontario, Canada, June 9-10, 2005) (with T.-C. Hu and A.I. Volodin)(presented by A.I. Volodin).
- "On the asymptotic probability for the deviations of dependent bootstrap means from the sample mean", Annual Meeting of the Statistical Society of Canada (Saskatoon, Saskatchewan, Canada, June 12-15, 2005)(with S.E. Ahmed, D. Li, and A.I. Volodin) (presented by A.I. Volodin).
- "On the Golden Ratio, strong law, and first passage problem", Annual Meeting of the Statistical Society of Canada (London, Ontario, Canada, May 28-31, 2006) (with T.-C. Hu and A.I. Volodin) (invited paper) (presented by A.I. Volodin).
- "Weak laws of large numbers for double sums of independent random elements in Rademacher type p and stable type p Banach spaces", Fifth World Congress of

the International Federation of Nonlinear Analysts (Orlando, Florida, July 2-9, 2008) (with L.V. Thanh) (invited paper) (presented by A. Rosalsky).

- "A refinement of the Kolmogorov-Marcinkiewicz-Zygmund strong law of large numbers" [Preliminary Report], Gulf Coast Conference on Probability and Statistics-2010 (Tampa, Florida, February 27, 2010) (with D. Li and Y. Qi) (invited participant) (presented by A. Rosalsky).
- "A refinement of the Kolmogorov-Marcinkiewicz-Zygmund strong law of large numbers", The Florida Chapter of the American Statistical Association Annual Meeting (Jacksonville, Florida, February 3-4, 2012) (with D. Li and Y. Qi). [The presentation by A. Rosalsky was the Invited Opening Plenary Talk.]
- "Strong laws of large numbers for the sequence of maximum of partial sums of i.i.d. random variables", Annual Meeting of the Statistical Society of Canada (Montreal, Québec, Canada, June 3-6, 2018) (with S. Chang and D. Li) (presented by D. Li).

Ph.D. Students Directed:

André Adler, 1987 (Illinois Institute of Technology, Chicago)
Eunwoo Nam, 1992 (Korean Air Force Academy, Choongbook, Republic of Korea)
Amy Cantrell, 2001 (University of Florida, Gainesville)
Yuan Liao, 2012 (Bank of China, Beijing, People's Republic of China)
Robert Parker, 2017 (University of Florida, Gainesville)

Professional Organizations:

Institute of Mathematical Statistics American Mathematical Society International Federation of Nonlinear Analysts (member of the Board of Global Advisors) Caucus for Women in Statistics

Professional Service:

Member of the Editorial Board of the Journal of Organizational Behaviour and Statistics (1984, 1985)

Associate Editor of the International Journal of Stochastic Analysis (1989-present)(formerly titled Journal of Applied Mathematics and Stochastic Analysis)

- Member of the Editorial Board of the <u>International Journal of Mathematics and</u> <u>Mathematical Sciences</u> (1994-present)
- Associate Editor of the Journal of Statistics and Management Systems (1998-2012)
- Member of the Editorial Board of the <u>Far East Journal of Theoretical Statistics</u> (2003-present)
- Member of the Editorial Board of <u>Advances and Applications in Statistical Sciences</u> (2008-present)
- Guest Member of the Editorial Board of Nonlinear Analysis: Theory, Methods & Applications (2008-2009)
- Associate Editor of Journal of Information & Optimization Sciences (2013-present)
- Advisory Editor of Statistics, Optimization & Information Computing (2013-present)
- Member of the Editorial Board of the <u>African Journal of Science and Research</u> (2013present)
- Member of the Editorial Board of Far East Journal of Probability Theory and Statistics (2015-present)

Referee for:

Acta Mathematica Scientia Abstract and Applied Analysis Advances and Applications in Statistical Sciences American Mathematical Monthly American Statistician Annali de Matematica Pura ed Applicata Annals of Probability Annals of Statistics Applications of Mathematics Applied Mathematics-A Journal of Chinese Universities. Ser. B Applied Mathematics Letters Chinese Annals of Mathematics, Series B Collectanea Mathematica Communications in Statistics-Theory and Methods Computers & Mathematics with Applications Extremes Far East Journal of Probability Theory and Statistics Fasciculi Mathematici Fields Institute Communications Series (American Mathematical Society) Glasnik Matematički

Indian Academy of Sciences. Proceedings. Mathematical Sciences International Journal of Mathematics and Mathematical Sciences Iranian Journal of Science and Technology Journal of Applied Mathematics and Stochastic Analysis Journal of Applied Probability Journal of the Australian Mathematical Society Journal of Inequalities and Applications Journal of the Korean Mathematical Society Journal of the Korean Statistical Society Journal of Mathematical Analysis and Applications Journal of Mathematics and Statistics Journal of Multivariate Analysis Journal of Statistical Planning and Inference Journal of Theoretical Probability Kybernetika Lithuanian Mathematical Journal Lobachevskii Journal of Mathematics Mathematical and Computer Modelling Nonlinear Analysis: Theory, Methods & Applications **Open Journal of Statistics Open Mathematics Open Statistics & Probability Journal** Pakistan Journal of Statistics Probability in the Engineering and Informational Sciences Proceedings of the American Mathematical Society Proceedings of the Conference on Convergence in Ergodic Theory and Probability (The Ohio State University, June 23-26, 1993) **Results** in Mathematics Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales. Series A. Matematicas. RACSAM **Rocky Mountain Journal of Mathematics** Sankhyā, Series A Science China. Mathematics Southeast Asian Bulletin of Mathematics Statistical Methodology **Statistical Papers** Statistics & Probability Letters Stochastic Analysis and Applications Stochastics Stochastics and Dynamics The Legacy of Alladi Ramakrishnan in the Mathematical Sciences (Springer-Verlag, New York 2010)

Teoriya Veroyatnostei i ee Primeneniya (Theory of Probability and its Applications) <u>TEST</u> Turkish Journal of Mathematics

Reviewer for <u>Mathematical Reviews</u>

Grant reviewer for the National Science Foundation (U.S.A.)

Reviewer for the Fulbright Scholar Program

Grant Reviewer for the U.S. Army Research Office

- Grant Reviewer for the Natural Sciences and Engineering Research Council of Canada
- Member of the Advisory Board of the Second International Triennial Calcutta Symposium on Probability and Statistics (Calcutta, India, December 30, 1994-January 2, 1995)
- Co-organizer of the session "Stochastic Convergence" at the Fifth World Congress of the International Federation of Nonlinear Analysts (Orlando, Florida, July 2-9, 2008)
- Member of the International Federation of Nonlinear Analysts Board of Global Advisors
- Member of the Technical Program Committee of the International Congress on Interdisciplinary Business and Social Sciences 2012 (Jakarta, Indonesia, December 1-2, 2012)

Grants:

Collaboration in Basic Science and Engineering Grant-National Research Council (Office of International Affairs), Summer 1998 [joint with Oleg Klesov from the former Soviet Union]

Awards and Honors:

- Twice received a University of Florida Teaching Improvement Program Award for \$5,000 (1993-1994, 1998-1999)
- Anderson/CLAS Scholar Faculty Honoree (1996, 1997, 1999, 2000, 2003)
- Honored jointly with Deli Li (Lakehead University, Thunder Bay, Ontario, Canada) by Lakehead University for our research contributions during the 50th Anniversary Celebration of Lakehead University (March 2015)

Significant Department, College, and University Committees and Service:

Department of Statistics

- Undergraduate Advisor for ten years
- Undergraduate Coordinator for five years
- Chair of the Graduate Student Selection/Assistantship Committee for five years
- Chaired five Faculty Search Committees
- Chair of the Committee to Write the Statistics Department By-Laws
- Peer Review of Teaching Coordinator

College of Liberal Arts and Sciences

- Member of the $Ad\ Hoc$ Committee to Revise the Student Evaluation of Teaching Form
- Member of the Curriculum Committee
- Member of the Faculty Council
- Member of the Nominating Committee
- Member of the Sabbatical Committee
- Member of the Travel Committee

University

- Elected to the Faculty Senate for numerous terms
- Member of the Academic Personnel Board

Community Service:

Member of the Federal Grand Jury of the United States District Court for the Northern District of Florida, Tallahassee (September 1982 - September 1983)

Other Activities:

Founding Member of the Humanities Society of Gainesville
Member of the Statue of Liberty-Ellis Island Foundation
Charter Member of the United States Holocaust Memorial Museum
Member of the Smithsonian National Associates
Associate Member of the American Museum of Natural History
Member of the Sierra Club
Member of the American Civil Liberties Union
Member of the United Faculty of Florida-University of Florida Chapter (National Education Association, United Federation of Teachers, AFL-CIO)
Member of the National Committee to Preserve Social Security and Medicare
Founder of the Statue of Liberty Museum
Member of the Center for Science in the Public Interest