
Ted Hill Curriculum Vitae May 2009

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EDUCATION

B.S.	U.S. Military Academy, West Point	Engineering	1966
M.S.	Stanford University	Operations Research	1968
M.A.	University of California, Berkeley	Mathematics	1974
Ph.D.	University of California, Berkeley	Mathematics	1977

PROFESSIONAL EXPERIENCE

Adjunct Professor, Dept. of Electrical & Computer Engineering, [University of New Mexico](#) (2006-present)
Research Scholar in Residence, [California Polytechnic State University](#) (2005-present)
Professor Emeritus, Mathematics, [Georgia Institute of Technology](#) (12/03-present.)
Professor, Mathematics, [Georgia Institute of Technology](#) (4/90-12/03)
Guest Professor, Econometrics, [Free University of Amsterdam](#) (10/02-11/02)
Visiting Professor, [Institute for Mathematical Stochastics](#), Göttingen (9/00-12/00)
Guest Professor, Dept. Math and Computer Sci., [Vrije Universiteit](#), Amsterdam (4/97-8/97)
Visiting Professor, [Centro de Investigación en Matemáticas A.C.](#), Guanajuato Mexico (1/97-3/97)
Guest Professor, Dept. Math and Computer Sci., [Vrije Universiteit](#), Amsterdam (3-7/94, 7-12/96)
Visiting Scholar, Mathematics, [University of Costa Rica](#) (11/93-2/94)
Guest Professor, Mathematics, [Vrije Universiteit](#), Amsterdam (6/93-11/93)
Visiting Professor, Mathematics, [University of Tel Aviv](#) (3/89)
Guest Professor, Mathematics, [University of Göttingen](#) (9/88-5/89)
Visiting Scholar, Mathematics, [University of California, Berkeley](#) (7/86-9/86)
Associate Professor, Mathematics, [Georgia Institute of Technology](#) (7/84-4/90)
Associate Professor, Mathematics, [University of Hawaii](#) (8/84-6/85)
Postdoctoral Fellow, Mathematics, [University of Leiden](#) (7/82-7/83)
Assistant Professor, Mathematics, [Georgia Institute of Technology](#) (9/77-6/84)

Lecturer, Applied Mathematics, [Washington University](#) (9/70-6/71)
Captain, U.S. Army (Vietnam; Company Commander; Research and Development) (6/68-9/70)

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CURRENT RESEARCH INTERESTS

Probability and measure theory, optimal stopping theory, [fair-division problems](#), limit laws, Benford's law.

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HONORS AND AWARDS

[Weird Science Award - "A weightier matter" \(2007\)](#)

Gauss Professor, [Göttingen Academy of Sciences](#) (2000)
Elected Fellow, Institute of Mathematical Sciences (1999)
Elected Member, [International Statistical Institute](#) (1993)
SCITREK Scholar Lecturer, Atlanta (1992)
Best Teaching Award Mathematics (from Faculty of 50) (1990)
Fulbright Professor, Mathematics, [University of Göttingen](#) (1988-89)
Sigma Xi Best Research Paper in Science, [Georgia Institute of Technology](#) (1984)
NSF-NATO Postdoctoral Fellow, Mathematics, [University of Leiden](#) (1982-83)
Fulbright Scholar, Mathematics, [University of Göttingen](#) (1971-72)
U.S. Army Graduate Scholarship, [Stanford University](#) (1966-68)
Distinguished Graduate, [West Point](#) (1966)

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RESEARCH GRANTS

Dutch National Science Foundation (NWO) Travel Grant, Univ. of Utrecht (2007)
[National Security Agency](#) Grant H98230-05-1-0297 (2005-2006)
[National Science Foundation](#) Grant DMS 99-71146 (1999-2003)
Göttingen Academy of Sciences (2000)
[NSF](#) Group Infrastructure Grant (with Bunimovich, Hale) (1996-2001)
Dutch National Science Foundation (NWO) Grant, Dossier B-61-355 (1996-97)
[National Science Foundation](#) Grant 95-03375 (1995-97)
Dutch National Science Foundation (NWO) Grant, Dossier B-61-281 (1993)
[National Science Foundation](#) Grants DMS-92-09586 (1992-94)
Israel-U.S. Binational Science Foundation Grant 88-00005 (with D. Gilat) (1991-93)
[National Science Foundation](#) Grant DMS-89-01267 (1989-91)
Fulbright Senior Researcher Award (1988-89)
[National Science Foundation](#) Grants DMS-84-01604, DMS-86-01608, DMS-87-01691 (1984-88)
NSF-NATO Postdoctoral Grant 7289 (1982-83)
Air Force Office of Scientific Research Grant F4962079C0123 (1979-80)

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PROFESSIONAL SOCIETIES MEMBERSHIP

[American Association of University Professors](#)
[American Civil Liberties Union](#)
[American Mathematical Society](#)
[Bernoulli Society](#)
[Institute of Mathematical Statistics](#)
[Mathematical Association of America](#)
[National Writers Union](#)

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PhD STUDENTS

[David Sitton](#), (Mathematician, Planning Systems, Inc.) PhD Dec. 2001
[Lisa Bloomer Green](#), (Assistant Professor, Middle Tennessee State University) PhD 2000
[Pieter Allaart](#), (Assistant Professor, University of North Texas) PhD 1998
Zuzana Kuhn, (Mathematician, Karlsruhe Software) PhD 1998
Josephine Gouweleeuw, (Mathematician, Dutch Bureau of Statistics) PhD 1994
Frans Boshuizen, (Full Professor, Free Univ. Amsterdam; Mathematician, ING) PhD 1991
[Martin Jones](#), (Associate Professor, College of Charleston) PhD 1989

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INVITED CONFERENCE LECTURES

Dynamics and Statistics of Spatially Extended Systems Workshop (dedicated to 60th birthday of Leonid Bunimovich), Banff International Research Station, Banff, Canada	Jan 2009
Keynote Lecture, Workshop on Applications of Benford's Law, Santa Fe	Dec 2007
Esterfest , Conference in Honor of Prof. E. Samuel-Cahn, Hebrew University, Jerusalem	Dec 2006
SIMMAC XV Costa Rica	Feb 2006
Conference on Stochastic Systems, University of Leiden	Mar 2005
Conference on Ergodic Theory, Univ. of North Carolina Chapel Hill	Feb 2004
Invited Hour Talk, ICM 2002 Satellite Conference in Hanoi	Aug 2002
Conference in Honor of David Blackwell and Lester Dubins, Berkeley	Feb 2002
Plenary Talks (two), Dutch Operations Research Annual Meeting, Lunteren	Jan 2002
Fair-Division Conference, U. of Pescara, Italy (2 hour talks)	Dec 2000
Keynote Lecture, Georgia MAA Meeting, Columbus	Apr 2000
Session on Stochastic Processes, AMS Meeting, Charlotte	Oct 1999
Mexican Mathematical Research Center (CIMAT) (5 lectures, in Spanish)	Feb 1999
Centralamerican Mathematics Conference, Invited Speaker, Costa Rica (in Spanish)	Feb 1997
Centralamerican Mathematics Conference, Invited Speaker, Guatemala (in Spanish)	Jan 1996
INFORMS Applied Probability Conference, Invited Talk, Session on Algorithms, Atlanta	Jun 1995
Centralamerican Mathematics Conference, Invited Speaker, Managua, Nicaragua	Jan 1995
Centralamerican Mathematics Conference, Invited Speaker, San Ramon, Costa Rica	Feb 1994
International Conference on Stochastic Processes, Plenary Speaker, Amsterdam	Jun 1993
AMS Invited Talk in Special Session on Stochastic Processes, Knoxville	Mar 1993
Annual Finnish Probability Conference, Invited Speaker (6 lectures), Lahti, Finland	Jun 1992
AMS-IMS-SIAM Invited Talk in Conference on Inequalities in Probability, Seattle	Jul 1991
AMS-IMS-SIAM Invited Talk in Conference on Sequential Search Strategies, Amherst	Jun 1990
Conference in honor of L. E. Dubins, University of California at Berkeley	May 1990
Conference on Optimal Stopping, Oberwolfach	Jun 1986

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CONTRIBUTED CONFERENCE PAPERS

International Congress of Mathematics 2002 Beijing	Aug 2002
Bernoulli World Congress 2000, Guanajuato, Mexico	May 2000

Southeast Probability Days, Atlanta	Mar 2000
Valdosta State Math Technology Conference, Valdosta	Feb 2000
Biannual Centralamerican Appl. Math. Conference (in Spanish), Costa Rica	Jun 2000
International Symposium on Mathematics, Costa Rica (in Spanish)	Feb 1998
American Mathematical Society Annual Meeting, Orlando	Jan 1996
Southeast Probability Days Annual Meeting, Atlanta	Sep 1995
American Mathematical Society Annual Meeting, San Antonio	Jan 1993
American Mathematical Society Annual Meeting, San Francisco	Jan 1991
Second World Congress of the Bernoulli Society, Uppsala	Aug 1990
American Mathematical Society Annual Meeting, Louisville	Jan 1990
American Mathematical Society Meeting, Tacoma	Jun 1987
American Mathematical Society Annual Meeting, San Antonio	Jan 1987
International Congress of Mathematicians, Berkeley	Aug 1986
American Mathematical Society Annual Meeting, Anaheim	Jan 1985
American Mathematical Society Annual Meeting, Louisville	Jan 1984
Markov Decision Processes Conference, University of Eindhoven	Apr 1983
Fifteenth European Conference on Probability and Statistics, Palermo	Sep 1982
Institute of Mathematical Statistics Regional Meeting, Tallahassee	May 1982
American Mathematical Society Annual Meeting, Cincinnati	Jan 1982
Georgia Mathematics Conference, Atlanta	Oct 1981
American Mathematical Society Annual Meeting, San Francisco	Jan 1981
American Mathematical Society Annual Meeting, Biloxi	Jan 1979
International Congress of Mathematicians, Helsinki	Aug 1978
American Mathematical Society Annual Meeting, Atlanta	Jan 1978
American Mathematical Society Annual Meeting, St. Louis	Jan 1977

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INVITED RESEARCH LECTURES

Millican Lecture, University of North Texas	Oct 2008
Econometrics Seminar, Free University Amsterdam	Jun 2008
GAME Lecture, University of Alberta	Apr 2008
Mathematics Colloquium, University of Alberta	Apr 2008
Colloquium, Joint Science Dept. of the Claremont Colleges, CA, Mar 2008	Mar 2008
Mathematics Colloquium, California Polytechnic State University	May 2007
Computer Science Department, Sonoma State University	Nov 2007
Mathematics Department, College of Charleston	Sep 2007
Tinbergen Institute, Amsterdam	Jun 2007
Mathematics Department, Univ. of Utrecht	Jun 2007
Mathematics Department, International University, HoChiMinh City	Mar 2007
Mathematics Department, Univ of Natural Sciences, HoChiMinh City	Mar 2007
Mathematics Department, Univ. of Canterbury, Christchurch	Feb 2007
Industrial Engineering/Operations Research Colloquium, U.C. Berkeley	Oct 2006
Mathematics Colloquium, U.S. Military Academy	Sep 2006
Joint ECE, Math, and Statistics Colloq. (2 lectures), U. New Mexico	Jun 2006
Joint Mathematics and Statistics Colloquium, California Polytechnic State University	Nov 2005
Department of Applied Mathematics, University of Bonn	Mar 2005
Department of Science, University of Pescara	Feb 2005
Mathematics Department, University of Naples	Jan 2005

Mathematics Department, Faculty of Economics, Univ of Rome	Jan 2005
Ergodic Theory and Probability Seminar, Ohio State University	Dec 2004
Mathematics Colloquium, Calif Polytechnic State University	Oct 2004
Center for Nonlinear Studies, Physics Department, Georgia Tech	Sep 2003
Stochastics Seminar, Chalmers University	Nov 2002
Mathematics Colloquium, Chalmers University	Nov 2002
Econometrics Lunch Seminar, Free University Amsterdam	Nov 2002
Mathematics Colloquium, Leiden University	Nov 2002
Stochastics Colloquium, Utrecht University	Oct 2002
Econometrics, Free U. Amsterdam (8 2-hour lectures)	Oct-Nov 2002
Colloquium, Tinbergen Institute of Economics	Oct 2002
Mathematics Colloquium, University of Central Queensland	Jul 2002
Mathematics Department, Cuesta College	Nov 2001
Physics Department, Claremont Graduate School	Oct 2001
Math Club, Portland State University	Apr 2001
Mathematics Colloquium, Portland State University	Apr 2001
Portland Stochastics Group, Portland	Apr 2001
Mathematics Colloquium, Steinhaus Center, Tech University of Wroclaw	Dec 2000
Stochastics Colloquium, Mathematics, University of Göttingen	Nov 2000
Statistics Research Seminar, University of Göttingen	Nov 2000
Invited Address, Göttingen Academy of Science (in German)	Oct 2000
Econometrics Colloquium, Free University of Amsterdam	Aug 2000
Guest Lecture, Tineberg Institute, Amsterdam	Aug 2000
Mathematics Colloquium, Cuesta College, San Luis Obispo, CA	Apr 2000
Statistics Colloquium, UC Santa Barbara	Apr 2000
Mathematics Colloquium, University of Charleston	Mar 2000
Mathematics Colloquium, Armstrong Atlantic State U., Savannah	Mar 2000
Mathematics Colloquium, St. Andrews Presbyterian College, Savannah	Mar 2000
Science in Society Lecture, College of Science, Kennesaw State University	Mar 2000
GA State Academic Committee on Math Subjects, Valdosta	Feb 2000
Mathematics & Computer Science Colloquium, CGSU, Milledgeville	Jan 2000
Faculty Seminar, Georgia College & State Univ., Milledgeville (GCSU)	Jan 2000
Mathematics Colloquium, Mercer Macon	Jan 2000
Mathematics Colloquium, California Polytechnic University	Jan 2000
Mathematical Sciences Department, Chattahoochee Tech	Dec 1999
Mathematics Department, University of Memphis	Nov 1999
Mathematics & Computer Sci. Department, Rhodes College	Nov 1999
Mathematics Department, University of Tennessee at Martin	Nov 1999
Mathematics Department, Dyersburg State, TN	Nov 1999
Mathematics Department, Georgia Perimeter College	Oct 1999
Mathematics Department, Atlanta Metropolitan College	Oct 1999
Mathematics Department, Tri-County Technical College, SC	Oct 1999
Session on Stochastic Processes, AMS Meeting, Charlotte	Oct 1999
Mathematics Department, University of North Carolina, Charlotte	Oct 1999
Mathematics Department, Clemson University	Oct 1999
Mathematics Department, East Tennessee State University	Sep 1999
Mathematics Department, Milligan College, TN	Sep 1999
Mathematics Department, Tennessee Tech	Sep 1999
Statistics Department, University of Tennessee-Knoxville	Sep 1999
Mathematics Department, University of Tennessee-Knoxville	Sep 1999

Mathematics Department, Free University of Amsterdam	Sep 1999
Mathematics Department, Clark Atlanta University	Dec 1998
Mathematics Department, University of Pittsburgh	Dec 1998
Mathematics Department, U.S. Naval Academy, Annapolis	Nov 1998
Mathematics Department, University of Miami	Nov 1998
Mathematics Department, University of Southern Mississippi	Oct 1998
Mathematics Department, University of North Texas	Oct 1998
Accounting Department, Business School, Southern Methodist University	Oct 1998
Mathematics Department, Dekalb College	Oct 1998
Mathematics Department, Columbus State University	Sep 1998
Gambling Theory Seminar, Mathematics Department, U.C. Berkeley	Sep 1998
Mathematics Department, University of Augsburg	Jun 1998
Mathematics Department, California Polytechnic State University, San Luis Obispo	Mar 1998
Institute of Mathematical Sciences, California State University-Monterey Bay	Mar 1998
Mathematics Department, University of Tennessee-Knoxville	Mar 1998
Mathematics Department, Morris Brown College, Atlanta	Mar 1998
Mathematics Department, University of Alabama-Huntsville	Feb 1998
Mathematics Department, University of Tennessee-Chattanooga	Feb 1998
Mathematics Department, University of Alabama-Birmingham	Feb 1998
Mathematics Department, Dekalb College	Jan 1998
F. Lane Hardy Lecture, Columbus State University	Jan 1998
Mexican Mathematical Research Center (CIMAT), Guanajuato, Mexico	Jan 1998
Mathematical Psychology Seminar, University of Düsseldorf	Jul 1997
Special Krengel Colloquium, University of Göttingen	Jun 1997
Mathematics Colloquium, University of Kiel	May 1997
Probability Seminar, National University of Mexico	Mar 1997
Probability Seminar, CIMAT Mexico (in Spanish)	Jan 1997
Stochastics Seminar, University of Utrecht	Nov 1996
Dynamics Colloquium, University of Amsterdam	Nov 1996
Stochastics Colloquium, Math Centrum, Amsterdam	Nov 1996
Mark Kac Lecture, Physics Laboratory, Utrecht	Nov 1996
Dutch National PhD Lectures, Utrecht	Fall 1996
Mathematics Department, University of Delft	Oct 1996
Mathematics Department, Chalmers University	Sep 1996
Sigma Xi College of Sciences Lecture, West Georgia College	May 1996
Mathematics Department, University of Charleston	Mar 1996
Mathematics Department, University of North Texas (Colloquium and Millican Lecture)	Nov 1995
Mathematics Department, University of Tennessee, Chattanooga	Nov 1995
Mathematics and Computer Science Department, Free University, Amsterdam	Aug 1995
College of Sciences Special Lecture, Georgia Tech	May 1995
Mathematics Department, University of Costa Rica, San Pedro (3 lectures, in Spanish)	Jan 1994
Mathematical Stochastics Department, University of Göttingen (in German)	Oct 1993
Mathematics Department, University of Groningen	Sep 1993
Mathematical Statistics Department, University of Münster	Jun 1993
Mathematics Department, Delft University of Technology	Sep 1992
Mathematical Stochastics Department, University of Göttingen	Aug 1992
Mathematics Department, Tel-Aviv University	Jul 1992
Mathematics Department, U. S. Military Academy, West Point	Sep 1991
Statistics Department, University of California, Berkeley	Aug 1991
Mathematics Department, Technical University of Eindhoven	Mar 1991

Mathematics Department, University of Amsterdam	Mar 1991
Mathematics Department, Technical University of Delft	Mar 1991
Mathematics Department, Sonoma State University	Feb 1991
Mathematics Department, College of Charleston	Nov 1990
Statistics Department, Purdue University	Nov 1990
Mathematical Stochastics Department, University of Göttingen	Aug 1990
Mathematics Department, University of Kiel (in German)	May 1989
Mathematics Department, University of Leiden	Apr 1989
Mathematics Department, Free University of Amsterdam	Apr 1989
Mathematics Department, Tel Aviv University	Mar 1989
Mathematics Department, University of Wuppertal (in German)	Nov 1988
Mathematical Stochastics Department, University of Göttingen (in German)	Nov 1988
Mathematics Department, Auburn University	May 1988
Mathematics Department, University of Queensland	Aug 1987
Mathematics Department, University of Melbourne	Jul 1987
Mathematics Department, Australian National University	Jul 1987
Mathematics Department, University of New South Wales	Jul 1987
Mathematics Department, University of Sydney	Jul 1987
Mathematics Department, Columbus College, Columbus	Feb 1987
Mathematics Department, U. S. Military Academy, West Point	Oct 1986
Applied Mathematics Department, University of Bonn (In German)	Jun 1986
Mathematical Stochastics Department, University of Göttingen	Jun 1986
Mathematics and Statistics Departments, Ohio State University	Apr 1986
Mathematics Department, University of Miami	Apr 1986
Faculty of Commerce, University of British Columbia	Dec 1984
Mathematics Department, University of Hawaii	Sep 1984
Mathematics Department, University of Nijmegen (In Dutch)	May 1983
Statistics Department, University of Tel-Aviv	Apr 1983
Mathematical Stochastics Department, University of Göttingen	Feb 1983
Mathematics Department, University of Eindhoven (In Dutch)	Dec 1982
Mathematics Department, University of Delft (In Dutch)	Dec 1982
Applied Mathematics Department, University of Bonn	Nov 1982
Stochastic Dynamic Programming Conference, University of Leiden	Nov 1982
Mathematics Department, Free University of Amsterdam	Aug 1982
Mathematics Department, University of Miami	Apr 1982
Mathematics Department, University of Hawaii	Apr 1980
Statistics Department, University of California, Berkeley	Oct 1979
Applied Mathematics Department, University of Bonn (In German)	Jul 1978

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GENERAL LECTURES


"Getting a Fair Share", Cuesta College, San Luis Obispo	Mar 2008
"Getting a Fair Share", Cal Poly Evening RSIR Lecture	Jan 2008
Introduction of General Wesley Clark, Jefferson-Jackson Dinner , Santa Barbara	Oct 2006
"The Power and Pitfalls of Probability", Cal Poly Evening RSIR Lecture	May 2006
College of Science Special Lecture, Georgia Tech	May 1995
Northside Senior Citizen (PALS) Lecture, Sandy Springs	May 1995
Boy Scout Science Lecture, Atlanta	Apr 1992

SCITREK Scholar Lecture, Atlanta	Jan 1992
Mathematics Recruitment Lecture, North Springs High School, Atlanta	1992
<i>Futurescape</i> Mathematics Lecture, Georgia Tech	1990
Mathematics Lecture, Georgia Tech Super Student Day	1989
Keynote Speaker, Graduate Student Recruitment Day, Georgia Tech	Mar 1988
Mathematics Showcase Speaker, Georgia Tech	1982

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PUBLICATIONS

To see an abstract, click on the title.

Some publications are printable by clicking the "pdf"  symbol at the end of the publication.

1. "Knowing When to Stop", *American Scientist* 97, 126-133 (2009). 
2. "An Optimal method to combine data from different experiments", Physics arXiv, posted Jan 30, 2009 (with J. Miller). 
3. "Ham Sandwich with Mayo: a Stronger Conclusion to the Classical Ham Sandwich Theorem", Mathematics arXiv, posted Jan 16, 2009 (with J.H. Elton). 
4. "Counterexamples in the theory of fair division", Mathematics arXiv, posted Jan 15, 2009 (with K.E. Morrison). 
5. "Conflations of Probability Distributions", Mathematics arXiv, posted Aug 13, 2008  (submitted for publication).
6. "A better definition of the kilogram", Physics arXiv, posted Sept 17, 2007 (with R. F. Fox). 
7. "Scale distortion inequalities for finite data sets", *Journal of Theoretical Probability* 21, 97-117 (2008) (with A. Berger and K. Morrison). 
8. "Newton's method obeys Benford's law", *American Mathematical Monthly* 114, 588-601 (2007) (with A. Berger). 
9. "An exact value for Avogadro's number", *American Scientist* 95, 104-107 (2007) (with R. Fox). 
10. "A Characterization of Newton Maps," *ANZIAM J.* 48 211-223 (2006) (with A. Berger). 
11. "Regularity of Digits and Significant Digits of Random Variables," *Journal of Stochastic Processes and Their Applications* **115**, 1723-1743 (2005) (with Klaus Schürger) 
12. *Newsweek*, Letter to the Editor, October 13, 2003, p. 20. 
13. "One-dimensional dynamical systems and Benford's Law", *Transactions of the American Mathematical Society* **357**, 197-219 (2005) (with Arno Berger and Leonid A. Bunimovich). 
14. "Constructing random probability distributions," *Abstract and Applied Analysis*, 453-468 (2004), Chuong, Nirenberg, Tutschke, eds., World Scientific Press (with D. Sitton). 
15. "Necessary and sufficient condition that the limit of Stieltjes transforms is a Stieltjes transform," *Journal of Approximation Theory* **121**, 54-60 (2003) (with J. Geronimo). 
16. "Maximin-share and minimax-envy in fair-division problems," *Journal of Mathematical Analysis and Applications* **281**, 346-361 (2003) (with M. Dall'Aglio). 
17. "Lévy-like continuity theorems for convergence in distribution," Proceedings of the Göttingen Academy of Sciences, 2001, *Nachrichten der Akademie der Wissenschaften zu Göttingen*, 1-21 (2002) (with U. Krengel). 
18. "Random probability measures with given mean and variance," *Journal of Theoretical Probability* **15**, 919-938 (2002) (with L. Bloomer). 
19. "Extreme moment goodness-of-fit tests," *Annals of Institute of Statistical Mathematics* **53**, 543-551 (2001) (with V.

Perez-Abreu).

20. "Alternative empirical distributions based on weighted linear combinations of order statistics," *Stochastic Analysis and Applications* **18**, 87-99 (2000) (with J. Mann).
21. "Mathematical devices for getting a fair share," *American Scientist* **88**, 325-331 (2000). 
22. "The difficulty of faking data," *Chance* **26**, 8-13 (1999). 
23. "Goal problems in gambling theory," *Revista de Matemática* **6** No. 2, 125-132 (1999). 
24. "Construction of random distributions via sequential barycenters," *Annals of Statistics* **26**, 1242-1253 (1998) (with M. Monticino).
25. "Fair-Division Problems," *Panem & Circenses* **10**, 16-27 (1998), University of Göttingen Stochastics Newsletter. 
26. "On the basic representation theorem for convex domination of measures," *Journal of Mathematical Analysis and Applications*, **228**, 449-446 (1998) (with J. Elton).
27. "The first-digit phenomenon," *American Scientist* **86**, 358-363 (1996). 
28. "Benford Law," *Encyclopedia of Mathematics Supplement*, Vol. 1, p. 102, Kluwer (1997). 
29. "A note on distributions of true versus fabricated data," *Perceptual and Motor Skills* **83**, 776-778 (1996). 
30. ["Strongly-consistent, distribution-free confidence intervals for quantiles,"](#) *Statistics and Probability Letters* **29**, 45-53 (1996) (with D. Gilat). *Erratum* **31**, 245-6 (1997). 
31. ["Strong laws for L- and U-statistics,"](#) *Transactions of the American Mathematical Society* **348**, 2845-2866 (1996) (with J. Aaronson, R. Burton, H. Dehling, D. Gilat and B. Weiss).
32. "A statistical derivation of the significant-digit law," *Statistical Science* **10**, 354-363 (1995). 
33. ["The significant-digit phenomenon,"](#) *The American Mathematical Monthly* **102**, 322-327 (1995). 
34. ["Base invariance implies Benford's Law,"](#) *Proceedings of the American Mathematical Society* **123**, 887-895 (1995). 
35. ["Minimax-optimal strategies for the best-choice problem when a bound is known for the expected number of objects,"](#) *SIAM Journal on Control and Optimization* **32**, 937-951 (1994) (with D. Kennedy).
36. ["On the relationship between convergence in distribution and convergence of expected extremes,"](#) *Proceedings of the American Mathematical Society* **121**, 1235-1243 (1994) (with M. C. Spruill).
37. ["Partitioning inequalities in probability and statistics,"](#) *Stochastic Inequalities*, IMS Lecture Notes **22**, 116-132 (1993).
38. ["Quantile-locating functions and the distance between the mean and quantiles,"](#) *Statistica Neerlandica* **47**, 1-5 (1993) (with D. Gilat).
39. ["Moment-based minimax stopping functions for sequences of random variables,"](#) *Stochastic Processes and Applications* **43**, 303-316 (1992) (with F. Boshuizen).
40. ["On the game of googol,"](#) *International Journal of Game Theory* **21**, 151-160 (1992) (with U. Krengel).
41. ["On the construction of generalized measure-preserving transformations with given marginals,"](#) *Ergodic Theory and Related Topics III* Springer Lecture Notes in Mathematics 1514, 114-123 (1992) (with U. Krengel).
42. ["One-sided refinements of the strong law of large numbers and the Glivenko-Cantelli Theorem,"](#) *Annals of Probability* **20**, 1213-1221 (1992) (with D. Gilat).
43. ["Sharp inequalities for optimal stopping with rewards based on ranks,"](#) *Annals of Applied Probability* **2**, 503-517 (1992) (with D. Kennedy).
44. ["Fusions of a probability distribution,"](#) *Annals of Probability* **20**, 421-454 (1992) (with J. Elton).
45. ["A prophet inequality related to the secretary problem,"](#) *Contemporary Mathematics* **125**, 209-215 (1992) (with U. Krengel).
46. ["A survey of prophet inequalities in optimal stopping theory,"](#) *Contemporary Mathematics* **125**, 191-207 (1992) (with R. Kertz).
47. ["Probability fusions; preliminary announcement,"](#) (in Russian) *Teoriya Veroyatnostei i ee Primeneniya* **37**, 402-406 (1992) (with J. Elton).

48. ["Linear search with bounded resources,"](#) *Naval Research Logistics Quarterly* **38**, 555-565 (1991) (with R. Foley and M. Spruill).
49. ["Minimax-optimal stop rules and distributions in secretary problems,"](#) *Annals of Probability* **19**, 342-353 (1991) (with U. Krengel).
50. ["Optimal stopping problems with generalized objective functions,"](#) *Journal of Applied Probability* **28**, 828-838 (1990) (with D. Kennedy).
51. ["A generalization of Levy's concentration-variance inequality,"](#) *Probability Theory and Related Fields* **86**, 53-62 (1990) (with R. Foley and M. Spruill).
52. ["Prophet inequalities for parallel processes,"](#) *Journal of Multivariate Analysis* **31**, 236-243 (1989) (with D. Kennedy).
53. ["Optimal-partitioning inequalities in classification and multi-hypotheses testing,"](#) *Annals of Statistics* **17**, 1325-1334 (1989) (with Y. L. Tong).
54. ["A proportionality principle for partitioning problems,"](#) *Proceedings of the American Mathematical Society* **103**, 288-293 (1988).
55. ["Common hyperplane medians for random vectors,"](#) *American Mathematical Monthly* **95**, 437-441 (1988).
56. ["Random-number guessing and the first-digit phenomenon,"](#) *Psychological Reports* **62**, 967-971 (1988).
57. ["Equitable distribution of indivisible objects,"](#) *Mathematical Social Sciences* **16**, 1-14 (1988) (with S. Demko).
58. ["Expectation inequalities associated with prophet inequalities,"](#) *Stochastic Analysis and Applications* **5**, 299-310 (1987).
59. ["Monotonically improving limit-optimal strategies in finite-state decision processes,"](#) *Mathematics of Operations Research* **12**, 463-473 (1987) (with J. Van der Wal).
60. ["A sharp partitioning-inequality for non-atomic probability measures based on the mass of the infimum of the measures,"](#) *Probability Theory and Related Fields* **75**, 143-147 (1987).
61. ["The existence of good Markov strategies in decision processes with general payoffs,"](#) *Stochastic Processes and Applications* **24**, 61-76 (1987) (with V. Pestien).
62. ["Partitioning general probability measures,"](#) *Annals of Probability* **15**, 804-813 (1987).
63. ["A generalization of Lyapounov's convexity theorem to measures with atoms,"](#) *Proceedings of the American Mathematical Society* **99**, 297-304 (1987) (with J. Elton).
64. ["Prophet inequalities for averages of independent non-negative random variables,"](#) *Mathematische Zeitschrift* **192**, 427-436 (1986).
65. ["Optimal-partitioning inequalities for non-atomic probability measures,"](#) *Transactions of the American Mathematical Society* **296**, 703-725 (1986) (with J. Elton and R. Kertz).
66. ["Equipartitioning common domains of non-atomic measures,"](#) *Mathematische Zeitschrift* **189**, 415-419 (1985).
67. ["Selection of order of observation in optimal stopping problems,"](#) *Journal of Applied Probability* **22**, 177-184 (1985) (with A. Hordijk).
68. ["On maximizing the average time at a goal,"](#) *Stochastic Processes and Applications* **17**, 349-357 (1984) (with S. Demko).
69. ["Almost sure stability of partial sums of uniformly bounded random variables,"](#) *Proceedings of the American Mathematical Society* **89**, 685-690 (1983).
70. ["Determining a fair border,"](#) *American Mathematical Monthly* **90**, 438-442 (1983).
71. ["Stop rule inequalities for uniformly bounded sequences of random variables,"](#) *Transactions of the American Mathematical Society* **278**, 197-207 (1983) (with R. Kertz). li> ["Prophet inequalities and order selection in optimal stopping problems,"](#) *Proceedings of the American Mathematical Society* **88**, 131-137 (1983).
72. ["The advantage of using non-measurable stop rules,"](#) *Annals of Probability* **11**, 442-450 (1983) (with V. Pestien).
73. ["A stronger form of the Borel-Cantelli Lemma,"](#) *Illinois Journal of Mathematics* **27**, 240-243 (1983).
74. ["Comparisons of stop rule and supremum expectations of i.i.d. random variables,"](#) *Annals of Probability* **10**, 336-345 (1982) (with R. Kertz).
75. ["Conditional generalizations of strong laws which conclude the partial sums converge almost surely,"](#) *Annals of Probability* **10**, 828-830 (1982).

76. ["Additive comparisons of stop rule and supremum expectations of uniformly bounded independent random variables,"](#) *Proceedings of the American Mathematical Society* **83**, 582-585 (1981) (with R. Kertz).
77. ["Ratio comparisons of supremum and stop rule expectations,"](#) *Zeitschrift für Wahrscheinlichkeitstheorie* **56**, 283-285 (1981) (with R. Kertz).
78. ["Decision processes with total-cost criteria,"](#) *Annals of Probability* **9**, 293-301 (1981) (with S. Demko).
79. ["On the existence of good Markov strategies,"](#) *Transactions of the American Mathematical Society* **247**, 157-176 (1979).

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CONSULTING

Department of Education, United Arab Emirates (2007): Accreditation Committee University of Sharjah and American University of Sharjah

Leisuretime Inc. (1999-2000): Video Poker Calculations

Coca Cola International (1998): Statistical Testing

Scientific Games Inc. (1995-96): Probability Games

Eleven-Alive TV Channel 11 News (1996): Lottery schemes

Carnation Foods, Inc. (1991, 1993): Determination of sample risks

WAGA TV Channel 5 News (1990): Analysis of Florida lottery strategies

Nestle's Inc. (1988): Determination of "forward" and "backward" mixtures of bicomponent solutions

Atlanta Inquirer (1988): Explanation of "airplane" pyramid schemes (1988)

Tillinghast, Nelson and Warren (Atlanta) (1987): Analysis of statistics of Pepsico pension plan lawsuit

WAGA TV Channel 5 News and CBS National News (Dan Rather Show 1987): Analysis of "system" beat national Beatrix lottery

Sutherland, Asbill and Brennan (Atlanta) (1980): Landmark cross-district busing case involving analysis of indices of segregation.

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PROFESSIONAL SERVICE

Referee

Advances in Applied Probability
American Mathematical Monthly
American Statistician
Annals of Applied Probability
Annals of Operations Research
Annals of Probability
Annals of Statistics
Applied Mathematical Sciences
Australian Meteorological Magazine
Bernoulli
Bulletin of the London Mathematical Society
Chaos
Colloquium Mathematica
Contemporary Mathematics

Electronic Communications in Probability
Electronic Journal of Combinatorics
European Physical Journal A
Fourth Symposium on Decision Theory
Group Decision and Negotiation
IMS Lecture Notes on Stochastic Inequalities
International Journal of Mathematics and Mathematical Sciences
Journal of Applied Probability
Journal of Australian Mathematical Society
Journal of Mathematical Analysis and Applications
Journal of Multivariate Analysis
Journal of Statistical Computation and Simulation
Journal of Theoretical Probability
Kodai Mathematical Journal
Lecture Notes on Stochastic Inequalities
Mathematica Japonica
Mathematischen Annalen
Mathematische Nachrichten
Mathematics of Operations Research
Operations Research Perceptual and Motor Skills
Physica D
Probability in Engineering and Information Sciences
Probability Theory and Related Fields
Proceedings of the American Mathematical Society
Proceedings of the AMS-IMS-SIAM Conference on Sequential Search
Proceeding of Mexican Mathematical Society Conference
Psychological Reports
Revista de Matematica
Scandinavian Journal of Statistics
Sequential Analysis
SIAM Review
Statistics and Probability Letters
Social Choice and Welfare
Statistica Neerlandica
Stochastic Analysis and Applications
Stochastic Processes and Applications
South African Statistical Journal

Reviewer

U.S. National Science Foundation
 Israel-U.S. Binational Science Foundation
 Mathematical Reviews
 NATO Scientific Exchange Program
 Zentralblatt für Mathematik
 Civilian Research and Development Foundation (CRDF)
 Israel Science Foundation

External Review Committees

Accreditation Committee, University of Sharjah and Amer. U. of Sharjah	Feb 2007
Mexican Mathematical Research Center (CIMAT)	Jan 2000-2004

Science Panels

NSF Graduate Research Fellowship Program Panel, Washington, DC	Feb 2006
NSF POWRE Screening Panel, Washington, DC	Apr 1998
NSF Minority Screening Panel, Washington, DC	Apr 1997
NSF Probability Screening Panel, Washington, DC	Dec 1996
Fulbright Selection Committee, Bonn, Germany	1989

Scientific Organizing Committees

Scientific Organizing Committee SIMMAC XVI, Costa Rica	2008
Scientific Organizing Committee SIMMAC XV, Costa Rica	2006
Scientific Organizing Committee, ICM 2002 Hanoi Satellite Conference	2001-02
Scientific Organizing Committee, Centralamerican Math. Conf.	1997

Co-organizer, AMS Special Session on Stochastic Inequalities, Atlanta	Oct 1997
Steering Committee, Southeast Applied Analysis Center	1996-2001
Organizer, Session on Optimal Stopping, INFORMS Conf., Atlanta	Jun 1995
Organizer, Workshop on Optimal Stopping, Free University, Amsterdam	Jun 1993
SCITREK Scholar Organizing Committee, Atlanta	1992-93
Organizer, Miniconference on Martingales and Optimal Stopping, Atlanta	Sep 1989
Co-organizer, Special Session, AMS Annual Meeting	1988

Chaired Sessions in Scientific Meetings

Session on Optimal Control, SIMMAC XV, Costa Rica	Feb 2006
Probability Session, ICM 2002, Beijing	Aug 2002
Probability Session, ICAAA 2002, Hanoi	Aug 2002
Session on Partitioning, SPA '93, Amsterdam	Jun 1993
Probability Session, AMS Annual Meeting, San Antonio	Jan 1993
Analysis Session, International Congress of Mathematicians, Berkeley	1986
Analysis Session, Annual AMS Meeting	1985

Miscellaneous

Co-Director, Georgia Tech, Center for Applied Probability	1995-96
Fulbright Faculty Associate (for Boshuizen/Gouweleeuw)	1993
President of Faculty Assembly, School of Mathematics, Georgia Tech	1992-93
Visiting Professors Program, Georgia Tech	May 1992
ASSET Faculty Friend Program, Georgia Tech	1992-93
Georgia Tech Whitewater Canoe Instructor	1984-89
Faculty Advisor, Psi Upsilon Fraternity	1983-84, 1991-95
Faculty Advisor, Georgia Tech Scuba Club	1981-82
Organizer/Co-organizer Georgia Tech Probability Seminar	1977-2000

Last modified: May 12, 2009 .