
Ted Hill Curriculum Vitae

May 2023

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EDUCATION

Ph.D. in Mathematics	University of California, Berkeley	1977	[Diploma]
Ph.C. in Mathematics	University of California, Berkeley	1977	[Diploma]
M.A. in Mathematics	University of California, Berkeley	1974	[Diploma]
Fulbright Scholar in Mathematics	University of Göttingen	1972	
Ranger Tab	U.S. Army Infantry School	1968	[Diploma]
M.S. in Operations Research	Stanford University	1968	[Diploma]
B.S. in Engineering	U.S. Military Academy, West Point	1966	[Diploma]

PROFESSIONAL EXPERIENCE

Professor Emeritus, Mathematics, [Georgia Institute of Technology](#) (since 2003)
Research Scholar in Residence, [California Polytechnic State University](#) (since 2005)
Visiting Professor, Dept. of Economics & Business, [LUISS Guido Carli U.](#), Rome (10/10-11/10)
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, and Benford's law.

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HONORS AND AWARDS

Article selected for publication in *The Best Writing on Mathematics*, Princeton University Press (2019)
Quillette Top Ten most popular articles of 2018 (# 4 of about 400)
[American Scientist Most Popular Articles \(2016\)](#) - see #7
Article selected for publication in *The Best Writing on Mathematics*, Princeton University Press (2010)
[Hal's Pick of the Month](#) Selection for March (2007)
Weird Science Awardee # 2, "A Weightier Matter" [Science Matters by Tom Siegfried](#), December (2006)
[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, Free University of Amsterdam (2009)
[Dutch National Science Foundation \(NWO\)](#) Travel Grant, Free University of Amsterdam (2008)
[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](#)
[Fulbright Association Life Member](#)
[Institute of Mathematical Statistics](#)
[Mathematical Association of America](#)
[National Writers Union](#)
[New York Academy of Sciences](#)

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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

European Commission Conference on Benford's Law , Keynote speaker, Stresa, Italy	Jul 2019
Game Theory Workshop Lecture, CIMAT	Feb 2016
Semi-Plenary Lecture, SIMMAC XVIII, University of Costa Rica	Feb 2012
Prob. & Statistics Conf. , Mexican Math. Res. Center (CIMAT), 3 lectures (in Spanish)	Feb/Mar 2012
SIMMAC XVII, University of Costa Rica	Feb 2010
Bunimovich Conference , 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, University of 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, Germany	Jun 1986

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CONTRIBUTED CONFERENCE LECTURES

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

MASS Colloquium, Dept. of Math., Penn State University	Sep 2016
Dept. of Math. Colloquium, Penn State University	Sep 2016
Statistics Seminar, U. Nevada, Reno	Sep 2015
Mathematics & Statistics Colloquium, U. Nevada, Reno	Sep 2015
Statistics & Applied Probability Seminar, UC Santa Barbara	Apr 2015

Game Theory Seminar, CIMAT, Guanajuato, MX	Apr 2015
Invited lecture, 35th Anniversary of CIMAT, Guanajuato, MX	Apr 2015
Penn Mathematics Colloquium, U. of Pennsylvania	Apr 2015
Combinatorics & Probability Seminar, U. of Pennsylvania	Mar 2015
Invited lecture, Analytics Group, Software San Diego	Apr 2014
Colloquium, Dept. of Mathematics & Statistics, San Diego State University	Oct 2013
Millican Colloquium, U. of North Texas, Denton	Oct 2013
RTG Undergrad Math Research Colloquium, U. of North Texas, Denton	Oct 2013
Tinbergen Institute, Amsterdam	Jun 2013
Tinbergen Institute, Amsterdam	Jun 2012
Mathematics Colloquium, California Polytechnic State University	May 2012
Mathematics Colloquium, Mexican Mathematical Research Center (CIMAT)	Feb 2012
ID Analytics, San Diego, CA	Oct 2011
Dept. of Mathematics, US Military Academy, West Point, NY	Sep 2011
Tinbergen Institute, Amsterdam	Jun 2011
Dept. of Statistics & Geoeconomics Seminar, University of Rome - La Sapienza	Nov 2010
Dept. of Economics & Business Seminar, LUISS Guido Carli Univ.	Oct 2010
Tinbergen Institute, Amsterdam	Jun 2010
Mathematics Colloquium, San Jose State University	Mar 2010
Bay Area Mathematics Adventures Lecture, San Jose State University	Mar 2010
Mathematics Colloquium, University of Nevada, Reno	Feb 2010
Tinbergen Institute, Amsterdam	Jun 2009
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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OTHER RESEARCH & ACADEMIC VISITS

Modern Mathematics - Int. Summer School for Students, Jacobs U., Bremen, Germany	Jul 1-11, 2017
University of Alberta	Jul 2014
Free University of Amsterdam	Jun 2013
Free University of Amsterdam	Jun 2012
Free University of Amsterdam	Jun 2011
Invited guest, Nomenclature Committee, Amer. Chemical Soc. meeting, Boston, MA	Aug 2010
Free University of Amsterdam	Jun 2010
Free University of Amsterdam	May/Jun 2009
Free University of Amsterdam	Jun/Jul 2008
Free University Amsterdam	Jun 2007
University of Utrecht	Jun 2007

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GENERAL LECTURES

Cal Poly Research Scholars in Residence Lecture, SLO	Feb 2019
Cal Poly Research Scholars in Residence Lecture, SLO	Feb 2016
Cal Poly Women's Club Lecture, SLO	Jan 2016
Dept. of History Lecture, Cal Poly, SLO	Nov 2013
Two Honors Program Lectures, San Jose State Univ.	May 2012
Cal Poly Evening Research Scholars in Residence Lecture, SLO	Apr 2010
RAMS Lecture, SLO	May 2009
Science Forum Lecture, Cuesta College, SLO	Mar 2008
Cal Poly Evening Research Scholars in Residence Lecture, SLO	Jan 2008
Introduction of General Wesley Clark, Jefferson-Jackson Dinner , Santa Barbara	Oct 2006
Cal Poly Evening Research Scholars in Residence Lecture, San Luis Obispo (SLO)	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

Books

[*PUSHING LIMITS: Memoir of a Maverick from Soldier to Scholar*](#) (paperback), Wise Ink Creative Publishing, August 2020.

[*PUSHING LIMITS: From West Point to Berkeley and Beyond*](#) (hardcover), American Mathematical Society (AMS) and Mathematical Association of America (MAA), April 2017.

[*An Introduction to Benford's Law*](#) (with A. Berger). Princeton University Press, 2015.

[*Advances in Stochastic Inequalities: AMS Special Session on Stochastic Inequalities and Their Applications*](#) (Ed. with C. Houdré). American Mathematical Society, 1999.

Articles

(Note that many of these articles are freely available through the [Cal Poly Digital Commons](#) website.)

Benford's Law

1. A Widespread Error in the Use of Benford's Law to Detect Election and Other Fraud, math arXiv:2011.13015 [math.PR]. Last revised November 25 (2020). [\[ARXIV-PDF\]](#)
2. [The mathematics of Benford's law: a primer](#) (with A. Berger), Statistical Methods & Applications (2020). [\[PDF\]](#)
3. [What is ... Benford's Law?](#) (with A. Berger), *Notices of the AMS* 64(2), pp. 132-134 (2017).
4. Hubble's Law Implies Benford's Law for Distances to Galaxies (with R. Fox), *Journal of Astrophysics and Astronomy* 37(1), pp. 1-8 (2016). [\[PDE\]](#) For an earlier version, see Hubble's Law Implies Benford's Law for Distances to Stars (with R. Fox), Physics arXiv, posted December 4(2014). [\[ARXIV-PDF\]](#)
5. [Benford's Law: A curious statistical phenomenon that keeps getting curiouiser](#), Princeton University Press Blog, Oct 6 (2015).
6. Benford's Law, in *The Princeton Companion to Applied Mathematics*, ed. N. J. Higham, Princeton University Press, pp. 135-136 (2015).
7. A Short Introduction to the Mathematical Theory of Benford's Law (with A. Berger), in *Benford's Law - Theory and Applications*, ed. S. J. Miller, Princeton University Press, pp. 23-55 (2015).
8. A basic theory of Benford's Law (with A. Berger), *Probability Surveys* 8:1-126 (2011). [\[PDF\]](#)
9. Benford's Law Blunders, Letter to the Editor, *The American Statistician* 65(2):141, 2011. [\[PDE\]](#)
10. Benford's Law Strikes Back: No Simple Explanation in Sight for Mathematical Gem (with A. Berger), *The Mathematical Intelligencer* 33(1):85-91 (2011). [\[PDF\]](#)
11. Finite-state Markov Chains obey Benford's Law (with B. Kaynar, A. Berger, and A. Ridder), *SIAM J. Matrix. Anal. Appl.*

- 32(3):665-684 (2011). [\[PDF\]](#)
12. Fundamental Flaws in Feller's Classical Derivation of Benford's Law (with A. Berger), *Mathematics arXiv*, posted May 14, 2010. [\[ARXIV-PDF\]](#)
 13. Scale distortion inequalities for mantissas of finite data sets (with A. Berger and K. Morrison), *Journal of Theoretical Probability* 21:97-117 (2008). [\[PDF\]](#)
 14. [Your Number's Up](#), Response to Letters to the Editor, *American Scientist Online*, May-June (2007) (Online link is incorrect).
 15. Newton's method obeys Benford's law (with A. Berger), *American Mathematical Monthly* 114:588-601 (2007). [\[PDF\]](#)
 16. One-dimensional dynamical systems and Benford's Law (with A. Berger and L.A. Bunimovich), *Transactions of the American Mathematical Society* 357:197-219 (2005). [\[PDF\]](#)
 17. [Response to "Benfords Gesetz"](#), [Brief an die Herausgeber](#), *Deutsche Mathematische Verein*, Mitteilungen 3:4 (2001).
 18. The difficulty of faking data, *Chance* 26:8-13 (1999). [\[PDF\]](#)
 19. The first-digit phenomenon, *American Scientist* 86:358-363 (1998). [\[PDF\]](#)
 20. Benford's Law, *Encyclopedia of Mathematics Supplement* 1:102, Kluwer (1997). [\[PDF\]](#)
 21. A note on distributions of true versus fabricated data, *Perceptual and Motor Skills* 83:776-778 (1996). [\[PDF\]](#)
 22. A statistical derivation of the significant-digit law, *Statistical Science* 10:354-363 (1995). [\[PDF\]](#)
 23. The significant-digit phenomenon, *The American Mathematical Monthly* 102:322-327 (1995). [\[PDF\]](#)
 24. Base invariance implies Benford's Law, *Proceedings of the American Mathematical Society* 123:887-895 (1995). [\[PDF\]](#)
 25. Random-number guessing and the first-digit phenomenon, *Psychological Reports* 62:967-971 (1988). [\[PDF\]](#)

Fair Division

26. Slicing Sandwiches, States, and Solar Systems, published in *The Best Writing on Mathematics 2019*, Princeton University Press (2019).
27. Slicing Sandwiches, States, and Solar Systems, *American Scientist* 106(1):42-49(2018). [\[WEB\]](#)
28. A Stronger Conclusion to the Classical Ham Sandwich Theorem (with J.H. Elton), *European Journal of Combinatorics* 32:657-661 (2011). [\[PDF\]](#)
29. Cutting Cakes Carefully (with K.E. Morrison), *The College Mathematics Journal* 41(4):281-288, September (2010). [\[PDF\]](#)
30. Counterexamples in the theory of fair division (with K.E. Morrison), *Mathematics arXiv*, posted Jan 15 (2009). [\[ARXIV-PDF\]](#)
31. Maximin-share and minimax-envy in fair-division problems (with M. Dall'Aglio), *Journal of Mathematical Analysis and Applications* 281:346-361 (2003). [\[PDF\]](#)
32. Mathematical devices for getting a fair share, *American Scientist* 88:325-331 (2000). [\[PDF\]](#)
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 Scientific Games Inc. (1995-96): Probability Games
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 Carnation Foods, Inc. (1991, 1993): Determination of sample risks
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PROFESSIONAL SERVICE

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Advances in Applied Probability
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American Political Science Review
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Applied Mathematical Sciences
Australian Meteorological Magazine
Bernoulli
Bulletin of the London Mathematical Society
Canadian Journal of Information and Library Science
Canadian Journal of Physics
Chaos
Cognitive Science
Colloquium Mathematica
Contemporary Mathematics
Econometrics
Electronic Communications in Probability
Electronic Journal of Combinatorics
Equations and Applications
European Physical Journal A
Experimental Mathematics
Fourth Symposium on Decision Theory
Geotechnical and Geological Engineering
Group Decision and Negotiation
IMS Lecture Notes on Stochastic Inequalities
International Journal of Mathematics and Mathematical Sciences
Journal of the American Statistical Society

Journal of Applied Probability
Journal of Astrophysics and Astronomy
Journal of Australian Mathematical Society
Journal of Difference Equations and Applications
Journal of Mathematical Analysis and Applications
Journal of Multivariate Analysis
Journal of Statistical Computation and Simulation
Journal of Theoretical Probability
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Lecture Notes on Stochastic Inequalities
Lingua
Mathematica Japonica
Mathematical Social Sciences
Mathematischen Annalen
Mathematische Nachrichten
Mathematics of Operations Research
Notices of the American Mathematical Society
Operations Research Perceptual and Motor Skills
Physica D
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PLoS ONE
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
Proceedings of Mexican Mathematical Society Conference
Proceedings of the National Academy of Science
Psychological Reports
Revista de Matematica
Scandinavian Journal of Statistics
Sequential Analysis
SIAM Review
SN Social Sciences
Statistics and Probability Letters
Social Choice and Welfare
Statistica Neerlandica
Stochastic Analysis and Applications
Stochastic Processes and Applications
South African Statistical Journal
The American Statistician
The Mathematical Intelligencer

Reviewer for:

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 XVIII, Costa Rica	2012
Scientific Organizing Committee SIMMAC XVII, Costa Rica	2010
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
Co-organizer, Special Session, AMS Annual Meeting

Sep 1989
1988

Chaired Sessions in Scientific Meetings

Sessions I and II, Differential Equations, SIMMAC XVIII, Costa Rica
Session on Optimal Control, SIMMAC XV, Costa Rica
Probability Session, ICM 2002, Beijing
Probability Session, ICAAA 2002, Hanoi
Session on Partitioning, SPA '93, Amsterdam
Probability Session, AMS Annual Meeting, San Antonio
Analysis Session, International Congress of Mathematicians, Berkeley
Analysis Session, Annual AMS Meeting

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Miscellaneous

Co-Director, Georgia Tech, Center for Applied Probability
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Georgia Tech Whitewater Canoe Instructor
Faculty Advisor, Psi Upsilon Fraternity
Faculty Advisor, Georgia Tech Scuba Club
Organizer/Co-organizer Georgia Tech Probability Seminar

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