J Theodore Cox

Curriculum Vitae

✉ *jtcox@syr.edu*

Employment

2023–	Emeritus Professor of Mathematics, *Syracuse University*
1986–2023	Professor of Mathematics, *Syracuse University*
1997–1998	Visiting Professor, *University of British Columbia*
1987–1988	Visiting Professor, *Cornell University*
1981–1986	Associate Professor, *Syracuse University*
1979–1981	Assistant Professor, *Syracuse University*
1977–1979	Assistant Professor, *University of Southern California*
1976–1977	Assistant Professor, *Georgia Institute of Technology*

Education

Ph.D.	Cornell University *1976*
B.S.	Harvey Mudd College *1972*

Research Area

Probability Theory

Honors

2013-2014	Fellow in Mathematics, Simons Foundation
1989	Elected Fellow, *Institute of Mathematics Statistics*

Grants

Simons Foundation

2013–2014	Fellow in Mathematics, Grant 267154

National Science Foundation

2012–2016	DMS-1208984
2008–2012	DMS-0803517
2005–2008	DMS-0505439
2002–2005	DMS-0204422
1999–2002	DMS-9971868
1996–1999	DMS-9626675
1996–1999	INT-9600698
1993–1996	DMS-9303233
1993–1994	INT-9301461
1990–1992	DMS-90004628

1986–1988	DMS-8601713
1984–1986	DMS-8401317
1981–1983	MCS-81021331
	National Security Agency
2012–2012	H98230-12-1-0264
1992–1994	MDA-904-92-H3089
1988–1990	MDA904-90-H120

PhD Students

| 1999 | Tom Pfaff (Ithaca College) |
| 2023 | Tianyue Wu (Ithaca College) |

Publications

[80] Ted Cox and Edwin Perkins. "A complete convergence theorem for the q-voter model and other voter model perturbations in two dimensions". *Electronic Journal of Probability* 30 (2025), pp. 1 –86. DOI: 10.1214/25-EJP1267.

[79] J. Theodore Cox and Edwin A. Perkins. "Rescaling the spatial Lambda-Fleming-Viot process and convergence to super-Brownian motion". *Electron. J. Probab.* 25 (2020), pp. 1–56. ISSN: 1083-6489. DOI: 10.1214/20-EJP452.

[78] Yu-Ting Chen and JT Cox. "Weak atomic convergence of finite voter models toward Fleming-Viot processes". *Stochastic. Process. Appl.* 128 (2018), pp. 2463–2488.

[77] JT Cox. "Densities of biased voter models converge to Feller's branching diffusion". *Markov processes and related fields* 23 (2017), pp. 421–444.

[76] Yu-Ting Chen, Jihyeok Choi, and JT Cox. "On the convergence of densities of finite voter models to the Wright-Fisher diffusion". *Ann. Inst. H. Poincaré Probab. Statist.* 52 (2016), pp. 286–322.

[75] JT Cox and Richard Durrett. "Evolutionary games on the torus". *Stochastic Process. Appl.* 126 (2016), pp. 2388–2409.

[74] JT Cox, Yuval Peres, and Jeffrey E Steif. "Cutoff for the Noisy Voter Model". *Ann. Appl. Probab.* 26 (2016), pp. 917–932.

[73] J Theodore Cox and Edwin A Perkins. "A complete convergence theorem for voter model perturbations". *Ann. Appl.Probab.* 24 (2014), pp. 150–197.

[72] J Theodore Cox and Rinaldo B Schinazi. "A stochastic model for the evolution of the influenza virus". *Markov processes and related fields* 20 (2014), pp. 155–166.

[71] JT Cox, R. Durrett, and E. Perkins. "Voter model perturbations and reaction diffusion equations". *Astérisque* 349 (2013).

[70] J.T. Cox and R.B. Schinazi. "A branching process for virus survival". *J. Appl. Probab.* 49 (2012), pp. 888–894.

[69] JT Cox. "Intermediate range migration in the two-dimensional stepping stone model". *Ann. Appl. Probab.* 20 (2010), pp. 785–805. ISSN: 1050-5164. DOI: 10.1214/09-AAP639.

[68] JT Cox, Nevena Marić, and Rinaldo Schinazi. "Contact process in a wedge". *J. Stat. Phys.* 139 (2010), pp. 506–517. ISSN: 0022-4715. DOI: 10.1007/s10955-010-9950-7.

[67] JT Cox, Mathieu Merle, and Edwin Perkins. "Coexistence in a two-dimensional Lotka-Volterra model". *Electron. J. Probab.* 15 (2010), no. 38, 1190–1266. ISSN: 1083-6489. DOI: 10.1214/EJP.v15-795.

[66] JT Cox and Rinaldo B. Schinazi. "Survival and coexistence for a multitype contact process". *Ann. Probab.* 37 (2009), pp. 853–876. ISSN: 0091-1798. DOI: 10.1214/08-AOP422.

[65]   JT Cox and Edwin A. Perkins. "Renormalization of the two-dimensional Lotka-Volterra model". *Ann. Appl. Probab.* 18 (2008), pp. 747–812. ISSN: 1050-5164. DOI: 10.1214/07-AAP453.

[64]   JT Cox and Edwin A. Perkins. "Survival and coexistence in stochastic spatial Lotka-Volterra models". *Probab. Theory Related Fields* 139 (2007), pp. 89–142. ISSN: 0178-8051. DOI: 10.1007/s00440-006-0040-3.

[63]   JT Cox and Edwin A. Perkins. "Rescaled Lotka-Volterra models converge to super-Brownian motion". *Ann. Probab.* 33 (2005), pp. 904–947. ISSN: 0091-1798. DOI: 10.1214/009117904000000973.

[62]   Iljana Zähle, JT Cox, and Richard Durrett. "The stepping stone model. II. Genealogies and the infinite sites model". *Ann. Appl. Probab.* 15 (2005), pp. 671–699. ISSN: 1050-5164. DOI: 10.1214/105051604000000701.

[61]   JT Cox, D. A. Dawson, and A. Greven. "Mutually catalytic super branching random walks: large finite systems and renormalization analysis". *Mem. Amer. Math. Soc.* 171 (2004), pp. viii+97. ISSN: 0065-9266.

[60]   JT Cox and Edwin A. Perkins. "An application of the voter model–super-Brownian motion invariance principle". *Ann. Inst. H. Poincaré Probab. Statist.* 40 (2004), pp. 25–32. ISSN: 0246-0203. DOI: 10.1016/S0246-0203(03)00046-3.

[59]   JT Cox and Achim Klenke. "Rescaled interacting diffusions converge to super Brownian motion". *Ann. Appl. Probab.* 13 (2003), pp. 501–514. ISSN: 1050-5164. DOI: 10.1214/aoap/1050689591.

[58]   Theodore Cox and Richard Durrett. "Correction: "The stepping stone model: new formulas expose old myths" [Ann. Appl. Probab. **12** (2002), no. 4, 1348–1377; 1936596]". *Ann. Appl. Probab.* 13 (2003), p. 816. ISSN: 1050-5164,2168-8737.

[57]   JT Cox and Richard Durrett. "The stepping stone model: new formulas expose old myths". *Ann. Appl. Probab.* 12 (2002), pp. 1348–1377. ISSN: 1050-5164. DOI: 10.1214/aoap/1037125866.

[56]   JT Cox and Achim Klenke. "Erratum: "Recurrence and ergodicity of interacting particle systems" [Probab. Theory Related Fields **116** (2000), no. 2, 239–255; MR1743771 (2001j:60181)]". *Probab. Theory Related Fields* 122 (2002), pp. 613–615. ISSN: 0178-8051. DOI: 10.1007/s004400200197.

[55]   Maury Bramson, JT Cox, and Jean-François Le Gall. "Super-Brownian limits of voter model clusters". *Ann. Probab.* 29 (2001), pp. 1001–1032. ISSN: 0091-1798. DOI: 10.1214/aop/1015345592.

[54]   JT Cox, Richard Durrett, and Edwin A. Perkins. "Rescaled voter models converge to super-Brownian motion". *Ann. Probab.* 28 (2000), pp. 185–234. ISSN: 0091-1798. DOI: 10.1214/aop/1019160117.

[53]   J.T. Cox and J. Geiger. "The genealogy of a cluster in the multitype voter model". *The Annals of Probability* 28 (2000), pp. 1588–1619.

[52]   JT Cox and Achim Klenke. "Recurrence and ergodicity of interacting particle systems". *Probab. Theory Related Fields* 116 (2000), pp. 239–255. ISSN: 0178-8051. DOI: 10.1007/PL00008728.

[51]   JT Cox, Achim Klenke, and Edwin A. Perkins. "Convergence to equilibrium and linear systems duality". In: *Stochastic models (Ottawa, ON, 1998)*. Vol. 26. CMS Conf. Proc. Providence, RI: Amer. Math. Soc., 2000, pp. 41–66.

[50]   JT Cox and Rinaldo B. Schinazi. "A stochastic spatial process to model the persistence of sickle-cell disease". *Ann. Appl. Probab.* 9 (1999), pp. 319–330. ISSN: 1050-5164. DOI: 10.1214/aoap/1029962744.

[49]   Ted Cox, Richard Durrett, and Edwin A. Perkins. "Rescaled particle systems converging to super-Brownian motion". In: *Perplexing problems in probability*. Vol. 44. Progr. Probab. Boston, MA: Birkhäuser Boston, 1999, pp. 269–284.

[48]   Maury Bramson, JT Cox, and Richard Durrett. "A spatial model for the abundance of species". *Ann. Probab.* 26 (1998), pp. 658–709. ISSN: 0091-1798. DOI: 10.1214/aop/1022855647.

[47]   JT Cox, Andreas Greven, and Tokuzo Shiga. "Finite and infinite systems of interacting diffusions: cluster formation and universality properties". *Math. Nachr.* 192 (1998), pp. 105–124. ISSN: 0025-584X. DOI: 10.1002/mana.19981920107.

[46]   Maury Bramson, JT Cox, and Andreas Greven. "Invariant measures of critical spatial branching processes in high dimensions". *Ann. Probab.* 25 (1997), pp. 56–70. ISSN: 0091-1798. DOI: 10.1214/aop/1024404278.

[45]   Maury Bramson, JT Cox, and Richard Durrett. "Spatial models for species area curves". *Ann. Probab.* 24 (1996), pp. 1727–1751. ISSN: 0091-1798. DOI: 10.1214/aop/1041903204.

[44]   JT Cox, Klaus Fleischmann, and Andreas Greven. "Comparison of interacting diffusions and an application to their ergodic theory". *Probab. Theory Related Fields* 105 (1996), pp. 513–528. ISSN: 0178-8051. DOI: 10.1007/BF01191911.

[43]   JT Cox and R. Durrett. "Hybrid zones and voter model interfaces". *Bernoulli* 1 (1995), pp. 343–370. ISSN: 1350-7265. DOI: 10.2307/3318488.

[42]   JT Cox, Andreas Greven, and Tokuzo Shiga. "Finite and infinite systems of interacting diffusions". *Probab. Theory Related Fields* 103 (1995), pp. 165–197. ISSN: 0178-8051. DOI: 10.1007/BF01204213.

[41]   JT Cox. "On the ergodic theory of critical branching Markov chains". *Stochastic Process. Appl.* 50 (1994), pp. 1–20. ISSN: 0304-4149. DOI: 10.1016/0304-4149(94)90144-9.

[40]   JT Cox. "Recent results on finite and infinite systems of interacting diffusions". *Resenhas* 1 (1994). Fifth Latin American Congress of Probability and Mathematical Statistics (Portuguese) (São Paulo, 1993), pp. 173–181. ISSN: 0104-3854.

[39]   JT Cox and Andreas Greven. "Ergodic theorems for infinite systems of locally interacting diffusions". *Ann. Probab.* 22 (1994), pp. 833–853. ISSN: 0091-1798.

[38]   JT Cox and Andreas Greven. "The finite systems scheme: an abstract theorem and a new example". In: *Measure-valued processes, stochastic partial differential equations, and interacting systems (Montreal, PQ, 1992)*. Vol. 5. CRM Proc. Lecture Notes. Providence, RI: Amer. Math. Soc., 1994, pp. 55–67.

[37]   Maury Bramson, JT Cox, and Andreas Greven. "Ergodicity of critical spatial branching processes in low dimensions". *Ann. Probab.* 21 (1993), pp. 1946–1957. ISSN: 0091-1798.

[36]   L. Buttell, JT Cox, and R. Durrett. "Estimating the critical values of stochastic growth models". *J. Appl. Probab.* 30 (1993), pp. 455–461. ISSN: 0021-9002.

[35]   JT Cox, Alberto Gandolfi, Philip S. Griffin, and Harry Kesten. "Greedy lattice animals. I. Upper bounds". *Ann. Appl. Probab.* 3 (1993), pp. 1151–1169. ISSN: 1050-5164.

[34]   JT Cox. "Some remarks on the theory of critical branching random walk". In: *Spatial stochastic processes*. Vol. 19. Progr. Probab. Boston, MA: Birkhäuser Boston, 1991, pp. 23–33.

[33]   JT Cox and R. Durrett. "Nonlinear voter models". In: *Random walks, Brownian motion, and interacting particle systems*. Vol. 28. Progr. Probab. Boston, MA: Birkhäuser Boston, 1991, pp. 189–201.

[32]   JT Cox, R. Durrett, and R. Schinazi. "The critical contact process seen from the right edge". *Probab. Theory Related Fields* 87 (1991), pp. 325–332. ISSN: 0178-8051. DOI: 10.1007/BF01312213.

[31]   JT Cox and Andreas Greven. "On the long term behavior of finite particle systems: a critical dimension example". In: *Random walks, Brownian motion, and interacting particle systems*. Vol. 28. Progr. Probab. Boston, MA: Birkhäuser Boston, 1991, pp. 203–213.

[30]   JT Cox and Philip S. Griffin. "How porous is the graph of Brownian motion?" *Trans. Amer. Math. Soc.* 325 (1991), pp. 119–140. ISSN: 0002-9947. DOI: 10.2307/2001662.

[29]   JT Cox and Richard Durrett. "Large deviations for independent random walks". *Probab. Theory Related Fields* 84 (1990), pp. 67–82. ISSN: 0178-8051. DOI: 10.1007/BF01288559.

[28]   JT Cox and A. Greven. "On the long term behavior of some finite particle systems". *Probab. Theory Related Fields* 85 (1990), pp. 195–237. ISSN: 0178-8051. DOI: 10.1007/BF01277982.

[27]   JT Cox and David Griffeath. "Mean field asymptotics for the planar stepping stone model". *Proc. London Math. Soc. (3)* 61 (1990), pp. 189–208. ISSN: 0024-6115. DOI: 10.1112/plms/s3-61.1.189.

[26]   JT Cox. "Coalescing random walks and voter model consensus times on the torus in $\mathbf{Z}^d$". *Ann. Probab.* 17 (1989), pp. 1333–1366. ISSN: 0091-1798.

[25]   Maury Bramson, JT Cox, and David Griffeath. "Occupation time large deviations of the voter model". *Probab. Theory Related Fields* 77 (1988), pp. 401–413. ISSN: 0178-8051. DOI: 10.1007/BF00319297.

[24]   JT Cox. "Some limit theorems for voter model occupation times". *Ann. Probab.* 16 (1988), pp. 1559–1569. ISSN: 0091-1798.

[23]   JT Cox and Richard Durrett. "Limit theorems for the spread of epidemics and forest fires". *Stochastic Process. Appl.* 30 (1988), pp. 171–191. ISSN: 0304-4149. DOI: 10.1016/0304-4149(88)90083-X.

[22]   JT Cox and David Griffeath. "Recent results for the stepping stone model". In: *Percolation theory and ergodic theory of infinite particle systems (Minneapolis, Minn., 1984–1985)*. Vol. 8. IMA Vol. Math. Appl. New York: Springer, 1987, pp. 73–83. DOI: 10.1007/978-1-4613-8734-36.

[21]   Maury Bramson, JT Cox, and David Griffeath. "Consolidation rates for two interacting systems in the plane". *Probab. Theory Related Fields* 73 (1986), pp. 613–625. ISSN: 0178-8051. DOI: 10.1007/BF00324856.

[20]   JT Cox and David Griffeath. "Critical clustering in the two-dimensional voter model". In: *Stochastic spatial processes (Heidelberg, 1984)*. Vol. 1212. Lecture Notes in Math. Berlin: Springer, 1986, pp. 59–68. DOI: 10.1007/BFb0076238.

[19]   JT Cox and David Griffeath. "Diffusive clustering in the two-dimensional voter model". *Ann. Probab.* 14 (1986), pp. 347–370. ISSN: 0091-1798.

[18]   JT Cox and David Griffeath. "Large deviations for some infinite particle system occupation times". In: *Particle systems, random media and large deviations (Brunswick, Maine, 1984)*. Vol. 41. Contemp. Math. Providence, RI: Amer. Math. Soc., 1985, pp. 43–54. DOI: 10.1090/conm/041/814701.

[17]   JT Cox and David Griffeath. "Occupation times for critical branching Brownian motions". *Ann. Probab.* 13 (1985), pp. 1108–1132. ISSN: 0091-1798.

[16]   JT Cox. "An alternate proof of a correlation inequality of Harris". *Ann. Probab.* 12 (1984), pp. 272–273. ISSN: 0091-1798.

[15]   JT Cox and David Griffeath. "Large deviations for Poisson systems of independent random walks". *Z. Wahrsch. Verw. Gebiete* 66 (1984), pp. 543–558. ISSN: 0044-3719. DOI: 10.1007/BF00531890.

[14]   JT Cox and Geoffrey Grimmett. "Central limit theorems for associated random variables and the percolation model". *Ann. Probab.* 12 (1984), pp. 514–528. ISSN: 0091-1798.

[13]   JT Cox and Uwe Rösler. "A duality relation for entrance and exit laws for Markov processes". *Stochastic Process. Appl.* 16 (1984), pp. 141–156. ISSN: 0304-4149. DOI: 10.1016/0304-4149(84)90015-2.

[12]   JT Cox and Richard Durrett. "Oriented percolation in dimensions $d \geq 4$: bounds and asymptotic formulas". *Math. Proc. Cambridge Philos. Soc.* 93 (1983), pp. 151–162. ISSN: 0305-0041. DOI: 10.1017/S0305004100060436.

[11]   JT Cox and David Griffeath. "Occupation time limit theorems for the voter model". *Ann. Probab.* 11 (1983), pp. 876–893. ISSN: 0091-1798.

[10]   JT Cox and Richard Durrett. "Some limit theorems for percolation processes with necessary and sufficient conditions". *Ann. Probab.* 9 (1981), pp. 583–603. ISSN: 0091-1798.

[9]   J.T. Cox and G. Grimmett. "Central limit theorems for percolation models". *J.Stat. Phys.* 25 (1981), pp. 237–251.

[8]   JT Cox and Harry Kesten. "On the continuity of the time constant of first-passage percolation". *J. Appl. Probab.* 18 (1981), pp. 809–819. ISSN: 0021-9002.

[7]   JT Cox. "The time constant of first-passage percolation on the square lattice". *Adv. in Appl. Probab.* 12 (1980), pp. 864–879. ISSN: 0001-8678. DOI: 10.2307/1426745.

[6] JT Cox. "An alternate proof of a theorem of Kesten concerning Markov random fields". *Ann. Probab.* 7 (1979), pp. 377–378. ISSN: 0091-1798.

[5] JT Cox. "Further results on one-dimensional diffusions with time parameter set $(-\infty, \infty)$". *Ann. Probab.* 7 (1979), pp. 537–542. ISSN: 0091-1798.

[4] JT Cox. "The age functional for Markov chains". *Z. Wahrsch. Verw. Gebiete* 49 (1979), pp. 163–170. ISSN: 0044-3719. DOI: 10.1007/BF00534255.

[3] JT Cox. "An example of phase transition in countable one-dimensional Markov random fields". *J. Appl. Probab.* 14 (1977), pp. 205–211. ISSN: 0021-9002.

[2] JT Cox. "Entrance laws for Markov chains". *Ann. Probab.* 5 (1977), pp. 533–549.

[1] JT Cox. "On one-dimensional diffusions with time parameter set $(-\infty, \infty)$". *Ann. Probab.* 5 (1977), pp. 807–813.

Invited Conference Lectures

2019 Mar. "Super-Brownian motion and the Fleming-Viot process - II", *March 2019 Workshop, Spatial population models: from configurations to genealogies and back*, Erlangen, Germany

2017 May "Weak atomic convergence of finite voter models to Fleming-Viot processes", *2017 Southeast Probability Conference*, Duke University, Durham NC.

2014 Feb. "Convergence of voter model densities on finite graphs", Workshop *From interacting particle systems to population genetics*, Universität Erlangen-Nünberg, Erlangen.

2013 Aug. "Convergence of voter model densities on finite graphs", *Workshop on Random Trees, Centre de Recherches Mathematique, Montreal.*

Jun. "Survival and coexistence for a class of stochastic spatial competition models", *Recent Trends in Stochastic Analysis,* UBC, Vacouver.

Apr. "Stochastic processes on graphs" (Gehman Lecture), *MAA Seaway Section,* Fredonia, NY.

2012 Sep. "Convergence of voter model densities on finite graphs", *AMS Special Session on Probability Probability and Statistical Physics,* Rochester, NY.

2012 Apr. "Survival and coexistence for a class of stochastic spatial models", *Workshop on Spatial Models of Micro and Macro Systems,* Mathematical Biosciences Institute, Columbus.

2011 Mar. Minicourse on "Limit Theorems for Voter model perturbations",*Young European Probabilists Workshop IIIV 2011, Stochastic Models for Population Dynamics,* Eurandom, Eindhoven.

2010 Jun. "Limit Theorems for Voter model perturbations", *IMS 2010 Annual Meeting,* Gothenburg.

Apr. "Limit Theorems for Voter model perturbations", *4th Cayuga Triangle Probability Seminar,* Ithaca.

2009 Jun. "Intermediate range migration in the two-dimensional stepping stone model", *Summer Meeting, Statistical Society of Canada,* Vancouver.

2008 Jun. "Survival and coexistence for a competition model using super-Brownian motion (I,II)", *4th Cornell Probability Summer School,* Ithaca.

2007 Jun. "Convergence of interacting particle systems to super-Brownian motion", *Probability and Stochastic Processes Symposium,* Ottawa.

Mar. "Survival and coexistence for a stochastic Lotka-Volterra Model", *Seminar on Stochastic Processes,* Fields Institute, Toronto.

2005 Jul. "Measure-Valued Limits of Interacting Particle Systems", *Plenary Address, The Joint Meeting of the Chinese Society of Probability and Statistics and The Institute of Mathematical Statistics,* Beijing.

2004 Aug. "The Stepping Stone Model", *Workshop on stochastic processes in evolutionary theory and disease genetics,* Banff International Research Station, Banff.

2002 Jun. "Measure-valued limits of a Lotka-Volterra model", *Summer Meeting, Canadian Mathematics Society,* Québec.

Apr. "Super-Brownian limits of voter model clusters: I and II", *Sixth Annual Southeastern Probability Days,* Atlanta.

Apr. "Some new results for the stepping stone model", *Workshop on Spatially Distributed and Hierarchically Structured Systems,* CRM, Montreal.

1999 Mar. "Rescaled voter models and super-Brownian motion", *Workshop on Interactive Measure-Valued Processes,* Fields Institute, Toronto.

1998 Jun. "Rescaled voter models and super-Brownian Motion", *International Conference on Stochastic Models,* Ottawa.

Jan. "A spatial model for the abundance of species", *First Pacific Rim Conference on Mathematics,* Hong Kong.

1997 Dec. "A spatial model for the abundance of species," *Workshop on Probability and Analysis,* Oberwolfach.

1995 Jul. "Local extinction of interacting diffusions", *IMS Workshop Directions in Probability,* Montreal.

Jul. "Species area curves", *Erlangen Probability Day,* Erlangen.

1994 Jan. "Recent results for systems of interacting diffusions", *Workshop on Mathematical Population Genetics,* IMA, Minneapolis.

1993 Jun. "Finite and infinite systems of interacting diffusions", *V CLAPEM,* São Paulo.

1992 Dec. "Finite and infinite systems of interacting diffusions", *Large Deviations Workshop,* Oberwolfach.

Nov. "The voter model – a simple interacting particle system", *MAA, Ithaca.*

Oct. "Critical spatial branching in low dimensions", *Workshop on Superprocesses and Interacting Particle Systems,* CRM, Montreal.

1991 Jul. "Interacting diffusions", *Workshop on Interacting Particle Systems,* MSI, Ithaca.

1989 Jun. "Critical branching in low dimensions", *AMS-SIAM Summer Seminar on Random Media,* Blacksburg.

Jan. "Critical branching random walks", *19th Annual Southern California Probability Symposium,* Los Angeles.

1988 Jul. "The long term behavior of some finite particle systems", *Oxford Workshop on Probability and its Applications,* Oxford.

1987 Aug. "Asymptotics for finite particle systems", *16th Conference on Stochastic Processes and their Applications,* Stanford

Jan. "A shape theorem for an epidemic model" *AMS Special Session on Probability and Analyss,* San Antonio.

1986 Feb. "Recent results for the stepping stone model", *Workshop on Percolation and Particle Systems,* IMA, Minneapolis.

1984 Sep. "Critical clustering in the two-dimensioinal voter model", *Stochastic Processes Conference,* German Cancer Research Center, Heidelberg.

1981 Aug. "Duality theory for entrance and exit laws", *IMS Summer Meeting,* Vail.

1979 Aug. "The time constant of first passage percolation", *AMS Special Session,* Duluth.

Jun. "Percolation processes", *IMS Special Session,* Los Angeles.

1977 Dec. "The age functional for Markov processes", *AMS Special Session,*Claremont.

1977 Dec. "Entrance laws for Markov processes", *Southern California Probability Symposium,* Los Angeles.

Colloquia/Seminar Talks

2024	Apr	University of North Carolina
2016	Mar	University of Rochester
	Feb.	Duke University
2014	May	Gothenburg University
	Apr	Courant Institute, NYU
	Feb	Goethe-Universität, Frankfurt am Main
	Feb	Johannes Gutenberg-Universität Mainz
	Jan	Duke University
2012	Mar	Arizona State University
2009	Oct	Cornell University
2007	Mar	Smith College
2006	Oct	Rochester Institute of Technology
	Mar.	Cornell University
2005	May	University of Colorado, Colorado Springs
2004	Dec	Erwin Schrödinger Institute for Mathematical Physics, Vienna
	Dec	Universität Erlangen-Nürnberg
	Sep	Pacific Institute of Mathematics
2003	May	University of Rochester
1999	May	Weierstrass-Institute for applied Analysis and Stochastics, Berlin
	Jun	Universität Erlangen-Nürnberg
1998	Nov	Cornell University
	Apr	University of British Columbia
	Jan	Kyoto University
	Jan	Nagoya University
	Jan	Tokyo University
1997	Dec	Goethe-Universität, Frankfurt
	Sep	University of British Columbia
	Apr	University of Rochester
1996	Nov	Cornell University
	Jul	University of British Columbia
1995	Jul	Universität Erlangen-Nürnberg
1994	Dec	University of Rochester
1993	Dec	Cornell University
1992	Dec	Universität Göttingen
	May	Universität Göttingen
1991	Nov	University of Rochester
1990	Oct	University of Wisconsin
	Aug	Universität Heidelberg
	Mar	University of Wisconsin
1989	Jul	Universität Heidelberg
	Sep	University of Ottawa

1988	Oct	York University
	Jun	Case Western Reserve University
1987	Nov	Cornell University
	Sep	Cornell University
	Mar	Tufts University
1986	Jul	Technische Universität, Berlin
	Jun	Universität Heidelberg
	Mar	Cornell University
	Apr	Cornell University
1984	Feb	Cornell University
1983	Feb	Courant Institute
1981	Dec	Cornell University
	Oct	University of Rochester
1980	Nov	Cornell University

Service

Mathematical Community

Associate Editor *Ann. Probab.* 1994-1999

Associate Editor *Electron. J. Probab.* 1999-2002

Editor in Chief *Electron. J. Probab.* 2002-2005

NSA Advisory Panel 07-08,08-09,09-10

NSF Advisory Panel 00,03,13,17

Reviewer NSA, NSF, NSERC, SNSF, US-Israel BSF grant proposals

Referee Various mathematics journals

External Examiner PhD Thesis Defense, G. Gauthier, Carleton University, 1995

Project Director USA/Brazil Cooperative Research Grant 96-99 (NSF)

Co-organizer "Topics in Modern Stochastic Analysis," Fields Institute, 2000

Organizer "3rd Cayuga Triangle Probability Meeting", 2009

Co-rganizer "Fingerlakes Probability Seminar", 2016,2017

Member PIMS PTCS Fellowship Committee, 2015-2018

Member IMS Nominating Committee, 2015

Mathematics Department

Executive Committee *85-87, 88-90, 94-96, 03-04, 05-07, 09-11, 12-13, 14-16, 17-18, 20-21, 21-22*

Graduate Committee *98-99, 99-00, 00-01 (Chair), 07-08 (Chair),19-20 (Chair)*

Undergraduate Committee *81-84*

PhD Qualifying Exam *83,89,90,93,96,03,09,12,17*

Undergraduate Advisor *81-83, 02-03, 10-12*

Mathematics Major Advisor *11-13*

Ad Hoc Committees *Reappointment (81,85,88,89); Promotion/Tenure (81,85,86,89,90, 93,94,95,03,10,12,14,21); Chair Search (02,05,17,19); Faculty Search (12,14,15,17,21)*

College/University

Chancellor's Citation Committee *89,90*

AS College Promotion/Tenure Committee *91-92, 96-97, 01-02, 02-03, 17-18*

AS College Curriculum Committee *16-17*

United Way Campaign *93-94*

AS Curriculum Committee *Fall 16*