HARVEY GOULD
CURRICULUM VITAE

Clark University
Department of Physics
Worcester, MA 01610-1477

URL: <physics.clarku.edu/~hgould>
e-mail: hgould@clarku.edu
508-793-7485

Personal

Married, three children

Professional Experience

2009–	Research Professor of Physics, Clark University
2007–	Visiting Scholar, Department of Physics, Boston University
2001–2011	Associate Editor, American Journal of Physics
1981–2009	Professor of Physics, Clark University
1994–98	Chair of Physics, Clark University
1988–90	Chair of Physics, Clark University
1987–1988	Visiting Research Professor, Department of Physics, Boston University
1986–87	Visiting Professor of Physics, Boston University
1983–85	Chair of Physics, Clark University
1980–86	Visiting Research Professor, Center for Polymer Studies, Boston University
1978–79	Visiting Scholar, James Franck Institute, University of Chicago and Visiting Professor, Laboratoire de Theorie des Liquids, Universite Pierre et Marie Curie
1976–78	Chair of Physics, Clark University
1974–75	Visiting Associate Professor of Physics, Bar-Ilan University
1971–81	Associate Professor of Physics, Clark University
1967–71	Assistant Professor of Physics, University of Michigan
1966–67	Postdoctoral Research Fellow, National Bureau of Standards

Education

Ph.D., Physics, University of California, Berkeley, January, 1966
A. B. (highest honors), Physics, University of California, Berkeley, June, 1960

Honors

Phi Beta Kappa, 1959
AAPT Robert A. Millikan Medal, 2013

Research Interests

Computer simulation and theoretical studies of the dynamics of first-order phase transitions including nucleation and glasses, critical slowing down, and models of earthquake faults. Previous research has been on liquid ^{4}He, mobility of ions in quantum liquids, kinetic theory, and system dynamics.

Teaching

Graduate: Computer Simulation Laboratory, Statistical Mechanics, Many Body Theory, Supervisor of seven Ph.D. theses. *Undergraduate*: Computer Simulation Laboratory, Thermal and Statistical Physics, Discovering Physics, Einstein and His Ideas.

Research Grants, Fellowships, and External Support

2005–2009	NSF, "OPTIC: Open physics technology for interactive curricula," with Wolfgang Christian, Mario J. Belloni, Anne J. Cox, and Jan Tobochnik.
2003–2006	NSF, "Acquisition of a high performance parallel computing cluster for the Departments of Biology, Chemistry, Physics, and Mathematics and Computer Science at Clark University."
2002–2004	NSF, "Development of software and curricular materials for the incorporation of computer simulations into the undergraduate physics curriculum."

1998–2002	NSF, "New curriculum materials for upper level undergraduate courses on thermal and statistical physics."
1998–2000	Institute for Theoretical Physics Scholar.
1996–1999	NSF, "Theoretical and computational studies of glasses and the glass transition."
1993–1996	NSF, "Development of curricular materials and software for the incorporation of computational physics into upper level undergraduate physics courses."
1993–1995	NSF ILI Program, "Development of curricular materials for an introductory level computer simulation laboratory in physics."
1993–1995	NSF Curriculum Development, "Discovering Physics: Extending an innovative approach to schools and the standard college curriculum."
1992–1994	Petroleum Research Foundation, "Computer simulation studies of the structure and dynamics of model atomic glasses."
1991–1993	NSF Instrumentation and Laboratory Improvement Program, "Equipment for a Full-Year Course in Discovering Physics for Pre-college Teachers."
1989–1990	NSF Instrumentation and Laboratory Improvement Program, "Development of the Computer Simulation Laboratory in physics."
1988	Apple Computer, "Development of Macintosh-based courseware for introductory and intermediate physics."
1987–1991	Office of Naval Research, "Microscopic studies of clusters in phase separation."
1986	Apple Computer, "Development of graphics-based courseware in computer simulation."
1985	Digital Equipment Corporation, "Development of computer simulation teaching strategies in undergraduate education."
1982	NSF, Development in Science Education, "Computer Simulation Laboratory for a second course in university-level physics."
1978–1980	NSF, Division of Materials Research, "Dynamics of charged particle systems."
1978	NSF, Faculty Development Fellowship.
1978	NSF, Climate Dynamics Program, "Effect of climate fluctuations on human populations."
1977	U.S.-Israel Binational Science Foundation, "Experimental and theoretical studies of liquid ^{4}He and ^{3}He."
1976	Faculty Research Participant, Argonne National Laboratory.
1973	Faculty Research Participant, Argonne National Laboratory.
1972	Research Corporation, "Theoretical studies of multiphonon excitations in superfluid helium."

Professional Societies and Activities

Fellow, American Physical Society; Member, Division of Computational Physics, Division of Condensed Matter Physics, Division of Chemical Physics, Topical Group on Statistical & Nonlinear Physics, Form on Education, and Forum on Science and Society.
Member, American Association of Physics Teachers.
Associate Editor, American Journal of Physics, 2001–2011.
Co-organizer, Greater Boston Area Statistical Mechanics Meeting, 1999–.
Member, Editorial Board, Physical Review E, 2002–2004.
Immediate Past Chair, New England Section of the American Physical Society, 2002; Chair, New England Section of the American Physical Society, 2001; Vice-Chair, New England Section of the American Physical Society, 2000.
Secretary/Treasurer, 2001–2004; Member, Executive Steering Committee, 1991–94, APS Division of Computational Physics.
Program Committee for Division of Computational Physics, Physics Computing conferences, San Jose 1991, Albuquerque 1993, Pittsburgh 1995, MIT 2001, San Diego 2002, Montreal 2004.
Co-chair, Gordon Research Conference on Physics Research and Education, June, 2000.

Associate Editor, Computers in Physics, 1988–1998.
Member of the State Board of Education Advisory Council on Technology, 1997–98.

Publications

1. H. Gould, "The Bethe-Salpeter equation in transport theory" in *Lectures in Theoretical Physics*, Boulder, Vol. IXC, W. E. Brittin, ed., Gordon and Breach, New York, pp. 451–491 (1966).

2. H. Gould and H. E. DeWitt, "Convergent kinetic equation for a classical plasma," Phys. Rev. **155**, 68 (1967).

3. H. A. Gould, R. L. Guernsey, and R. H. Williams, "Comments on the kinetic equation of a dilute gas with repulsive and attractive interactions," J. Chem. Phys. **47**, 872 (1967).

4. H. Gould and S.-k. Ma, "Low temperature mobility of heavy impurities in Fermi liquids," Phys. Rev. Lett. **21**, 1379 (1968).

5. H. Gould and S.-k. Ma, "Low temperature ion mobility in interacting Fermi liquids," Phys. Rev. **183**, 338 (1969).

6. H. Gould and V. K. Wong, "Effect of fluctuations on the thermal conductivity of ^{4}He near T_λ," Phys. Lett. **31**A, 364 (1970).

7. S.-k. Ma, H. Gould, and V. K. Wong, "Phonon dispersion in a low temperature weakly interacting Bose gas," Phys. Rev. A **3**, 1453 (1971).

8. H. Gould and V. K. Wong, "Order-parameter fluctuations in a weakly interacting Bose gas near the superfluid transition," Phys. Rev. A **4**, 719 (1971).

9. H. Gould and V. K. Wong, "Nonanalytic elementary excitation spectrum at long wavelengths in a Bose gas and liquid ^{4}He," Phys. Rev. Lett. **27**, 301 (1971).

10. V. K. Wong and H. Gould, "Structure functions in an interacting boson system," Phys. Lett. **39** A, 331 (1972).

11. 11. V. K. Wong and H. Gould, "Long wavelength excitations in a Bose gas at zero temperature," Ann Phys. (N.Y.) **83**, 252 (1974).

12. 12. H. Gould and V. K. Wong, "Long wavelength excitations in a Bose gas and liquid He II at $T = 0$," *Proceedings of 13th International Conference on Low Temperature Physics, Vol. 1* 76, (1974).

13. H. Gould and V. K. Wong, "Interpretation of specific heat measurements in superfluid ^{4}He," Phys. Rev. A **10**, 1896 (1974).

14. F. Family and H. Gould, "Comparison of field theoretic, correlated basis function, and collective coordinate results for the Bose gas," Lett. Nuovo **12**, 337 (1975).

15. F. Family and H. Gould, "Application of field theoretic, collective coordinate, and correlated basis function methods to many-boson systems," Phys. Rev. B **12**, 3961 (1976).

16. H. Gould and G. F. Mazenko, "Coupling of single particle and collective motion in a one component plasma," Phys. Rev. Lett. **35**, 1455 (1975).

17. V. K. Wong and H. Gould, "Specific heat of interacting Bose systems at low temperatures," Phys. Rev. B **14**, 3961 (1976).

18. H. Gould and G. F. Mazenko, "Microscopic theory of self-diffusion in a classical one-component plasma," Phys. Rev. A **15**, 1274 (1977).

19. O. T. Valls, G. F. Mazenko, and H. Gould, "Kinetic theory approach to normal Fermi liquids," Phys. Rev. B **18**, 263 (1978).

20. G. A. Estevez, H. Gould, and M. W. Cole, "Quantum corrections to the critical point parameters of a Lennard-Jones system in two and three dimensions," Phys. Rev. B **18**, 1222 (1978).

21. H. Gould and V. K. Wong, "Ripplon damping in superfluid ^{4}He at low temperatures," Phys. Rev. B **18**, 2124 (1978).

22. T. K. Bergstresser and H. Gould, "Impurities in Ising-model lattices and probe independence of hyperfine critical exponents," J. Phys. C **12**, 2611 (1979).

23. H. Gould, R. G. Palmer, and G. A. Estevez, "Asymptotic form of the mean spherical approximation for the internal energy of the classical one-component plasma," J. Stat. Phys. **21**, 55 (1979).

24. O. T. Valls, H. Gould, and G. F. Mazenko,"Dynamic fluctuations in normal liquid ^{3}He," Physica **108** B, 1205 (1981).

25. H. Gould and K. Holl, "Diffusivity and radius of random animals, percolation clusters and compact clusters," J. Phys. A **14**, L443 (1981).

26. "The effect of climate fluctuations on human populations: Two hypotheses" (with M. Bowden et al.), in *Climate and History*, M. Farmer, M. Ingram, T. M. Wrigley, eds., Cambridge University Press (1981).

27. O. T. Valls, H. Gould, and G. F. Mazenko "Dynamic correlations in Fermi fluids," Phys. Rev. B **25**, 1663 (1982).

28. H. Gould, F. Family and H. E. Stanley, "Kinetics of formation of randomly branched aggregates: A renormalization group approach," Phys. Rev. Lett. **50**, 686 (1983).

29. F. Family, C. Unger, and H. Gould, "Branching and vulcanization of polymer chains," J. Phys. A **17**, L665 (1983).

30. F. Family and H. Gould, "Polymer chain statistics and universality: Crossover from random to self-avoiding walks," J. Chem. Phys. **80**, 3892 (1984).

31. H. Gould and R. P. Kohin, "Diffusion on lattice animals and percolation clusters: A renormalization group approach," J. Phys. A **17**, L159 (1984).

32. D. Johnson and H. Gould, "The effect of climate fluctuations on human populations: A case study of Mesopotamian society," in *Climate and Development*, A. K. Biswas, ed., Tycooly International Limited (1984).

33. M. A. Khan, H. Gould, and J. Chalupa, "Monte Carlo renormalization group study of bootstrap percolation," J. Phys. C **18**, L223 (1985).

34. H. E. Stanley, F. Family, and H. Gould, "Kinetics of aggregation and gelation," J. Poly. Sci.: Polymer Symposium **73**, 19 (1985).

35. J. Tobochnik, H. Gould, and W. Klein, "Early-time instabilities in a dynamic percolation model," Phys. Rev. B **33**, 377 (1986).

36. J. Yang, H. Gould, and W. Klein, "Molecular dynamics investigation of deeply quenched liquids," Phys. Rev. Lett. **60**, 2665 (1988).

37. J. Yang, H. Gould, W. Klein, and R. D. Mountain, "Molecular dynamics study of supercooled liquids," J. Chem. Phys. **93**, 711 (1990).

38. R. C. Giles, A. I. Mel'cuk and H. Gould, "Molecular dynamic for liquids with short range interactions on the Connection Machine," in *Proceedings of the Fourth SIAM Conference on Parallel Processing for Scientific Computing*, J. Dongarra, P. Messina, D. C. Sorensen, and R. G. Voigt, eds., pp. 346–350 (1990).

39. A. I. Mel'cuk, R. C. Giles, and H. Gould, "Molecular dynamics on the Connection Machine," Computers in Physics **5**, 311 (1991).

40. W. Klein and H. Gould, "Clusters and nucleation," in *On Clusters and Clustering, From Atoms to Fractals*, P. J. Reynolds, ed., Elsevier Science (1993).

41. H. Gould and W. Klein, "Spinodal nucleation effects in systems with long-range interactions," Physica D **66**, 61–70 (1993).

42. W. Klein, H. Gould, R. A. Ramos, I. Clejan, and A. I. Mel'cuk, "Repulsive potentials, clumps, and the metastable glass phase," Physica A **205**, 738 (1994).

43. L. Colonna-Romano, A. I. Mel'cuk, H. Gould, and W. Klein, "Relaxation to equilibrium of single cluster dynamics of the Ising model," Physica A **209**, 396 (1994).

44. Li-Shi Luo, G. D. J. Phillies, L. Colonna-Romano, and H. Gould, "Brownian motion on a square Lennard-Jones lattice: Trapping, hopping, and diffusion," Phys. Rev. E. **51**, 43 (1995).

45. A. I. Mel'cuk, R. A. Ramos, H. Gould, W. Klein, and R. D. Mountain, "Long-lived structures in fragile glasses," Phys. Rev. Lett. **75**, 2522 (1995).

46. G. Johnson, H. Gould, J. Machta, L. K. Chayes, "Monte Carlo study of the Widom-Rowlinson Fluid using cluster methods," Phys. Rev. Lett. **79**, 2612 (1997).

47. G. Johnson, A. I. Mel'cuk, H. Gould, W. Klein, and R. D. Mountain, "Molecular dynamics study of long-lived structures in a fragile glass forming liquid," Phys. Rev. E **57**, 5707 (1998).

48. H. Gould, "Computational physics and the undergraduate curriculum," Comput. Phys. Comm. **127** (1), 6 (2000).

49. W. Klein, H. Gould, J. Tobochnik, F. J. Alexander, M. Anghel, and G. Johnson, "Clusters and fluctuations at mean-field critical points and spinodals," Phys. Rev. Lett. **85**, 1270–1273 (2000).

50. R. Sun, H. Gould, J. Machta, and L. Chayes, "Cluster Monte Carlo study of multi-component fluids of the Widom-Rowlinson and Stillinger-Helfand type," Phys. Rev. E **62**, 2226–2232 (2000).

51. N. Gulbahce, H. Gould, and W. Klein, "Zeros of the partition function and pseudospinodals in long-range Ising models, Phys. Rev. E **69**, 036119-1–8 (2004).

52. Jan Tobochnik, Harvey Gould, and Jonathan Machta, "Understanding the temperature and the chemical potential using computer simulations," Am. J. Phys. **73**, 708–716 (2005).

53. C. J. Gagne, W. Klein, T. Lookman, A. Saxena, and H. Gould, "Simulations of spinodal nucleation in systems with elastic interactions," Phys. Rev. Lett. **95**, 095701-1–4 (2005).

54. Y. Wu, M. Koerner, L. Colonna-Romano, S. Trebst, H. Gould, J. Machta, and M. Troyer, "Overcoming the critical slowing down of flat-histogram Monte Carlo simulations: Cluster updates and optimized broad-histogram ensembles," Phys. Rev. E **72**, 046704-1–10 (2005).

55. J.-C. Xia, H. Gould, W. Klein, and J. B. Rundle, "Simulation of the Burridge-Knopoff model of earthquakes with variable range stress transfer," Phys. Rev. Lett. **95**, 248501-1–4 (2005).

56. W. Klein, H. Gould, N. Gulbahce, J. B. Rundle, and K. Tiampo, "The structure of fluctuations near mean-field critical points and spinodals and its implication for physical processes," Phys. Rev. E **75**, 031114-1–22 (2007).

57. Hui Wang, Kipton Barros, Harvey Gould, and W. Klein, "Approaching equilibrium and the distribution of clusters," Phys. Rev. E **76**, 041116-1–10 (2007).

58. Hui Wang, Harvey Gould, and W. Klein, "Homogeneous and heterogeneous nucleation of Lennard-Jones liquids," Phys. Rev. E **76**, 031604-1–9 (2007).

59. J.-C. Xia, H. Gould, W. Klein, and J. B. Rundle, "Near mean-field behavior in the generalized Burridge-Knopoff earthquake model with variable-range stress transfer," Phys. Rev. E **77**, 031132-1-11 (2008).

60. Jan Tobochnik and Harvey Gould, "Teaching statistical physics by thinking about models and algorithms," Am. J. Phys. **76**, 353–359 (2008).

61. W. Klein, J. Xia, C. D. Ferguson, H. Gould, K. F. Tiampo, and J. B. Rundle, "Models of earthquake faults: Ergodicity and forecasting," Int. J. Mod. Phys. B **23**, 5553–5569 (2009).

62. K. Liu, N. Lubbers, W. Klein, J. Tobochnik, B. Boghosian, and H. Gould, "The effect of growth on equality in models of the economy," arXiv:1305.0794.

63. L. Colonna-Romano, H. Gould, and W. Klein, "Anomalous mean-field behavior of the fully connected Ising model," arXiv:1403.4854.

64. J. Xia, C. A. Serino, M. Anghel, J. Tobochnik, H. Gould, W. Klein, and J. Rundle, "Scaling behavior of the distribution of failed sites in the long-range Olami-Feder-Christensen model of earthquakes," manuscript in preparation.

Textbooks and Book Chapters

1. H. Gould and J. Tobochnik, *Thermal and Statistical Physics: With Computer Applications*, Princeton University Press (2010).

2. H. Gould, J. Tobochnik, and W. Christian, *An Introduction to Computer Simulation: Applications to Physical Systems*, third edition, Addison-Wesley (2006).

3. H. Gould and J. Tobochnik, *An Introduction to Computer Simulation: Applications to Physical Systems*, second edition, Addison-Wesley (1996).

4. H. Gould and J. Tobochnik, *An Introduction to Computer Simulation: Applications to Physical Systems*, Addison-Wesley (1988).

5. H. Gould, L. Spornick, and J. Tobochnik, *Thermal And Statistical Physics*, John Wiley & Sons (1996).

6. J. Tobochnik and H. Gould, "Teaching computational physics to undergraduates," in *Annual Reviews of Computational Physics* **IX**, edited by D. Stauffer, World-Scientific (2001), p. 275.

7. H. Gould and J. Tobochnik, "Integrating computational science into the physics curriculum," in *Lecture Notes in Computer Science* Vol. 2074, Part I, 1031, Springer (2001).

8. H. Gould and J. Tobochnik, "Using simulations to teach statistical physics," in *Computer Simulation Studies in Condensed Matter Physics XVI*, edited by D. Landau, Steven P. Lewis, and Heinz-Bernd Schüttler, Springer (2004).

Other publications

Co-editor (with Jan Tobochnik) of the Computer Simulation column in Computers in Physics, July/August, 1989–December, 1998.
Co-editor (with Jan Tobochnik) of the Computer Simulation column in Computing in Science and Engineering, January 1999–May 2001.
Co-editor (with Jan Tobochnik) of the Computational Physics Section in the American Journal of Physics, December 2012–present.

Invited Presentations, 2000–

1. "Computational physics and the undergraduate curriculum," AAPT/APS Department Chairs Conference, 15 April 2000.

2. "The structure of fluctuations at mean-field critical points and the implications for supercooled fluids: Simulations and experiments," 83rd Statistical Mechanics meeting, Rutgers University, 7 May 2000.

3. "Approaching the glass transition," John Hopkins University, Materials Science and Engineering Seminar, 25 October 2000.

4. "Approaching the glass transition," WPI physics colloquium, 22 January 2001.

5. "Approaching the glass transition: The importance of near-mean field," physics seminar, Carnegie Mellon University, 26 October 2001.

6. "Overview of curriculum developments in the teaching of statistical physics," invited talk, APS meeting, 18 March 2002.

7. "Using open-source Java applets for teaching statistical physics," invited talk, AAPT meeting, 6 August 2002.

8. "Computational physics and the open source physics project, contributed talk, the annual meeting of the Division of Computational Physics, San Diego, 26 August 2002.

9. "Teaching statistical physics using simulations," invited speaker at the 16th Annual Workshop on Recent Developments in Computer Simulation Studies in Condensed Matter Physics at the University of Georgia, 26 February 2003.

10. "How computers are changing physics," physics colloquium, University of Massachusetts, Lowell, 8 April 2003.

11. "Recent curriculum developments in the teaching of statistical physics," invited talk, AAPT summer meeting, Sacramento, August 2004.

12. Tutorial T2. "Statistical and thermal physics with interactive computer-based tutorials," Instructors: Wolfgang Christian, Harvey Gould, and Jan Tobochnik, APS meeting, 4 March 2007.

13. "Approaching and leaving metastability," Computational Science seminar, Boston University, 2 November 2007.

14. "Approaching and leaving metastability," colloquium, Department of Physics, Siena College, 5 November 2007.

15. "New challenges and ppportunities for old physics departments," Millikan lecture, AAPT Meeting, 15 July 2013.

Contributed Talks, 2000–

1. "Computational physics and the Open Source Physics project," Division of Computational Physics annual meeting, San Diego, 26 August 2002.

2. Harvey Gould and William Klein, "Pseudospinodal interpretation of the glass transition," APS March meeting, Montreal, 24 March 2004.

3. Harvey Gould, Jan Tobochnik, and Wolfgang Christian, "Using the Open Source Physics Java Library to do computer simulations," APS meeting, 14 March 2006.

4. Harvey Gould, Hui Wang, Jan Tobochnik, and Nicholas Tung, "Using the Open Source Physics Library to teach statistical and thermal physics," APS meeting, 15 March 2006.

5. H. Wang, H. Gould, and W. Klein, "Homogeneous nucleation of Lennard-Jones liquids," APS meeting, 7 March 2008.

6. R. Chacko, H. Gould, and W. Klein, "Umbrella sampling in the long range Ising model," APS meeting, 11 March 2008.

7. R. Chacko, H. Gould, and W. Klein, "Decay of metastable states in the N-neighbor Ising model," APS meeting, 19 March 2009.

Book Reviews

1. *Numerical Recipes*, W. H. Press, B. P. Flannery, S. A. Teukolsky, and W. T. Vetterling, Cambridge University Press (1986); H. Gould, Am. J. Phys. **55**, 90 (1987).

2. *Foundations of Statistical Mechanics*, Vols. I and II, W. T. Grandy, Jr., D. Riedel Publishing Co. (1967); H. Gould, Am. J. Phys. **57**, 563 (1989).

3. *Fractal Growth Phenomena*, T. Vicsek, World Scientific Publishers (1989); H. Gould, Computers in Physics **3** (2), 108 (1989).

4. *The Numerical Solution of Ordinary and Partial Differential Equations*, G. Granville, Academic Press (1988); H. Gould, Computers in Physics **3** (6), 98 (1989).

5. *A Guide to Introductory Physics Teaching*, A. B. Arons, John Wiley & Sons (1990); H. Gould and M. Gould, Am. J. Phys. **59**, 189 (1991).

6. S. L. Blatt and H. Gould, "Recent fractal and chaos software releases hint at future educational potential," Computers in Physics **6**, 702 (1992).

7. *A First Course in Computational Physics*, P. L. DeVries, John Wiley & Sons (1994); H. Gould, Am. J. Phys. **62**, 861 (1994).

8. *Computational Physics*, R. H. Landau and M. Páez, John Wiley & Sons (1997); *An Introduction to Computational Physics*, T. Pang, Cambridge University Press (1997); *Stochastic Simulation in Physics*, P. K. MacKeown, Springer (1998); H. Gould and J. Tobochnik, Am. J. Phys. **67**, 94 (1999).

9. *Monte Carlo Methods in Statistical Physics*, M. E. J. Newman and G. T. Barkema, Oxford University Press (1999); J. Stat. Phys. **98**, 503 (2000).

10. *Thermal Physics*, R. Baierlein, Cambridge University Press, New York (1999) and *An Introduction to Thermal Physics*, D. V. Schroeder, Addison-Wesley (2000); Physics Today **53** (8), 44–45 (2000).

11. *Howard Aiken: Portrait of a Computer Pioneer*, I. B. Cohen, MIT Press (1999); Physics Perspectives **3** (1), 128–130 (2001).

12. *A Guide to Monte Carlo Simulations in Statistical Physics*, D. P. Landau and K. Binder, Cambridge University Press (2000); MRS Bulletin **26** (8), 651 (2001).

13. *Equilibrium Statistical Physics*, L. M. Sander, self-published (2013); J. Stat. Phys., to be published.