

Michael F. Schatz
School of Physics
Georgia Institute of Technology, Atlanta GA 30332

Born:

March 2, 1961, Pierre, SD

EDUCATION:

Ph.D. in Physics, U. Texas, Austin 1991 (thesis advisor: H. Swinney)

B.S. in Physics, summa cum laude, U. of Notre Dame, 1983

PROFESSIONAL EXPERIENCE:

2002–Present Associate Professor of Physics, Georgia Institute of Technology

1996–2002 Assistant Professor of Physics, Georgia Institute of Technology

1993–1996 Postdoctoral Fellow, Department of Physics, U. Texas, Austin

1992 Lecturer, Department of Physics, U. Texas, Austin

HONORS:

Cottrell Scholar (1999)

GRADUATE AND POSTDOCTORAL ADVISING (in past 5 years):

J. Rogers, D. Semwogerere, K. Krishan, R. Indech

CURRENT RESEARCH SUPPORT:

National Science Foundation (CTS-9876590, CTS-0201610) , Research Corporation

OTHER COLLABORATORS (in past 48 months):

A. Zangwill, W. Pesch, H. Rockwood, K. Wiesenfeld, J. Swift, G. P. Neitzel, M. Smith,
R. Kelly, D. Kandel, N. Israeli, W. McCormick, R. Grigoriev, H. Swinney

SELECTED PUBLICATIONS:

1. “Evolution of hexagonal patterns from controlled initial conditions in a Benard convection experiment” (with D. Semwogerere) *Phys. Rev. Lett.* **88**, 054501 (2002).
2. “Huygens’ clocks” (with M. Bennett, H. Rockwood, and K. Wiesenfeld) *Proc. R. Soc. Lond. A* **458**, 563 (2002).
3. “Convective instability of strained-layer step-flow” (with N. Israeli, D. Kandel, and A. Zangwill) *Surface Sci. Lett.* **494**, L735 (2001).
4. “Experiments on thermocapillary instabilities” (with G. P. Neitzel) *Annu. Rev. Fluid Mech.* **33**, 93 (2001).
5. “Superlattice patterns in vertically oscillated Rayleigh-Bénard convection” (with J. L. Rogers, O. Brausch, and W. Pesch) *Phys. Rev. Lett.* **85**, 4281 (2000).
6. “Rayleigh-Bénard convection in a vertically oscillated fluid layer” (with J. L. Rogers, J. L. Bougie, and J. B. Swift) *Phys. Rev. Lett.* **84**, 87 (2000).
7. “Time-independent square patterns in surface-tension-driven Bénard convection” (with S. J. VanHook, J. B. Swift, W. McCormick, and H. Swinney) *Phys. Fluids* **11**, 2577 (1999).
8. “Long-wavelength surface-tension-driven Bénard convection: experiment and theory,” (with S. J. VanHook, J. B. Swift, W. D. McCormick, and H. L. Swinney) *J. Fluid Mech.* **345**, 45 (1997).
9. “Nonlinear control of remote unstable states in a liquid bridge convection experiment,” (with V. Petrov, K. A. Muehlner, S. J. VanHook, W. D. McCormick, J. B. Swift, and H. L. Swinney) *Phys. Rev. Lett.* **77**, 3779 (1996).
10. “Onset of surface-tension-driven Bénard convection” (with S. J. VanHook, J. B. Swift, W. McCormick, and H. Swinney) *Phys. Rev. Lett.* **75**, 1938 (1995).