KURT WIESENFELD

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Born:

February 12, 1958, New York, NY

EDUCATION:

Ph.D. in Physics, UC Berkeley, 1985 (thesis advisor: E. Knobloch)

M.A. in Physics, UC Berkeley, 1982

B.S. in Physics, M.I.T., 1979

PROFESSIONAL EXPERIENCE:

1997-Present	Professor of Physics, Georgia Institute of Technology
1992 – 1997	Associate Professor of Physics, Georgia Institute of Technology
1987 - 1992	Assistant Professor of Physics, Georgia Institute of Technology
1985 – 1987	Research Scientist, Physics Dept., Brookhaven National Lab
1984-1985	Lecturer and Researcher, Physics Board of Studies, UC Santa Cruz

HONORS:

Elected Fellow of the American Physical Society (2001)

Elected, Executive Committee, Division of Biological Physics, American Physical Society (1999)

GRADUATE AND POSTDOCTORAL ADVISING (in past 5 years):

B. Breen, M. Dhamala, J. Hasty, T. Heath, S. Peles

CURRENT RESEARCH SUPPORT:

Office of Naval Research, National Institute of Mental Health (through subcontract with Emory University)

OTHER COLLABORATORS (in past 48 months):

F. Jaramillo, A. Bulsara, M. Inchiosa, P. Hanggi, L. Gammaitoni, N.F. Pedersen, G. Filatrella, J. Lindner, H. Rockwood, M. Schatz, J. Rogers, G. Berns, G. Pagnoni, M. Dhamala,

SELECTED PUBLICATIONS:

- 1. "Self organized criticality." (with P. Bak and C. Tang), Phys. Rev. A 38, 364 (1988).
- 2. "Stochastic resonance and the benefits of noise: from ice ages to crayfish and SQUIDs," (with F. Moss), *Nature* **373**, 33 (1995).
- 3. "Frequency locking in Josephson arrays: connection with the Kuramoto model," (with S. Strogatz and P. Colet), *Phys. Rev. E* **57**, 1563 (1998).
- 4. "Mechanoelectrical transduction assisted by Brownian motion: a role for noise in the auditory system," (with F. Jaramillo), *Nature Neuroscience* 1, 384 (1998).
- 5. "Physiological Noise Enhances Mechanoelectrical Transduction in Hair Cells," (with
- F. Jaramilla, Chaos, Solutions and Fractals 11, 1869-74 (2000)