

Stephanie Frank Singer, Ph.D.

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WORK EXPERIENCE

General Managing Partner, Wise Acre Real Estate LLC, January 2006 - present.

Equal partner in two-person real estate development partnership with \$500K in assets in North Philadelphia. Oversee two office employees. Responsible for all financial matters.

CEO, Campaign Scientific LLC, December 2004 - present.

Created small firm (\$20K in assets, income of \$50K/year) to provide data consulting and analysis to small organizations. Provide strategic data acquisition, reorganization and analysis for election campaigns and nonprofit organizations. Induced PA Dept. of State to lower voter file prices by a factor of 50; implemented first Election Verification Exit Poll in two congressional districts in 2006.

Author, 1996-2005.

Wrote two well-received books on mathematics and physics:

Symmetry in Mechanics: A Gentle, Modern Introduction, Boston, Birkhauser, 2001.

Linearity, Symmetry and Prediction in the Hydrogen Atom, Springer Verlag, NY, 2005.

Assistant, then Associate Professor, Haverford College, 1991-2002.

Earned tenure in the Mathematics Department. Created three new courses from scratch: "The Language of Mathematics," engaging students who dislike academic mathematics with the mathematics in the world around them, and "The Hydrogen Atom" and "Mass and Spin," presenting the mathematical underpinnings of quantum mechanics to a mixed audience of math, physics and chemistry students. Directed about 20 senior thesis projects and a Masters thesis, and co-directed one doctoral dissertation, published seven research papers, lectured at the Institute for Advanced Study and other venues worldwide.

EDUCATION

Ph.D., Mathematics, New York University, 1991

B.S., Mathematics, Yale University, 1985

SELECTED AWARDS

Nat'l Science Foundation Course and Curriculum Development grant, 2002-2005, \$75K.

American Mathematical Society Centennial Research Fellowship, 1998, \$35K.

Bunting Institute of Radcliffe College, Science Scholarship, 1994-5, \$35K

LANGUAGES

Near-native **French**; fluent **German**; good reading and moderate conversational ability in **Italian**, **Portuguese**, **Spanish** and **Russian**.

(Last modified December 4, 2006.)