

SILVIO LEVY

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EDUCATION

Princeton University	Ph.D. in Mathematics, May 1985
Instituto de Matemática Pura e Aplicada, Rio de Janeiro	M.S. in Mathematics, Jan 1980
Instituto Militar de Engenharia, Rio de Janeiro	B.S. in Electronic Engineering, Dec 1979

EMPLOYMENT

Free-lance programmer, Web designer, editor and consultant Jan 1995–present

Director of Technology, Geometry Center Dec 1993–Dec 1994

The Geometry Center (University of Minnesota) was a National Science Foundation Science and Technology Research Center funded from 1988 to 1995. As Director of Technology, I set the technical goals and directions of the Center, including software development and support, decisions on hardware purchases, etc.; supervised the technical staff (4 senior staff and 4–8 student staff); advised and interacted with Center visitors, workshop organizers, educators, etc.; and wrote mathematical documents.

Research Associate, Geometry Center Feb 1988–Nov 1993

Activities included: direction (with Delle Maxwell and Tamara Munzner) of the video *Outside In*; research in computer graphics and combinatorial group theory; computer implementation of mathematical algorithms due to Thurston; programming support for visitors; \TeX macro development; editing and writing of mathematical books and articles.

Princeton University

Research Associate, Feb 1986 to Jan 1988; Instructor, from Sep 1985 to Jan 1986; Lecturer, Jan–Aug 1986.

OTHER ACTIVITIES

Editor, *Experimental Mathematics* Dec 1990–present

Editor (formerly Academic Editor), *The Mathematica Journal* Sep 1989–present

Invited talks at: Princeton University, Institute for Advanced Study (Princeton), CUNY, Boston University, U. Mass. (Amherst), U. Ill. (Champaign), IMPA (Rio de Janeiro), University of Athens, SIAM, \TeX User's Group conferences, *Mathematica* conferences

SOME PUBLICATIONS

- *The Cweb System of Literate Programming* (250 pp.), with Don Knuth, Addison-Wesley, 1993.
- *Word Processing in Groups* (300 pp.), with D.B.A. Epstein, J. Cannon, D. Holt, M. Paterson and W. Thurston, Jones and Bartlett, 1992.
- “Literate Programming and Cweb”, *Computer Language* **10**, 67–70 (January 1993).
- “Automatic Generation of Hyperbolic Tilings”, *Leonardo* **25**, 349–354 (1992).
- *A Beginner’s Book of T_EX*, with R. Seroul (250 pp.), Springer-Verlag, 1991.
- “Contour Tracing by Piecewise Linear Approximations, part II” with A. Wilks, in preparation.
- “Contour Tracing by Piecewise Linear Approximations,” with D. Dobkin, W. Thurston and A. Wilks, *ACM Transactions on Graphics*, 1990.
- “Literate Programming in C”, in *Proceedings of the 1987 T_EX User’s Group Conference*, T_EX User’s Group, Providence, 1988.
- “Typesetting Greek”, in *Proceedings of the 1987 T_EX User’s Group Conference*, T_EX User’s Group, Providence, 1988.
- “Critically finite rational maps”, Ph.D. thesis, Princeton University (1985).
- “Approximate critical surface of the bond-mixed square-lattice Ising model”, with C. Tsallis and E. Curado, *Phys. Rev. B*, **21**, 2991–2998 (1980).
- “Extrapolated renormalization-group calculation of the surface tension in square-lattice Ising model”, with C. Tsallis, E. Curado and M. Oliveira, *Phys. Rev. B*, **23**, 1419–1425 (1981).
- “Simple method to calculate percolation, Ising and Potts clusters: renormalization-group applications”, with C. Tsallis, *Phys. Rev. Letters*, **47**, 950 (1981).

LANGUAGES

English and Portuguese (fluent); French, Spanish, Modern Greek (moderately proficient); German and Russian (reading only).