

CURRICULUM VITAE

Alexander P. Schuster

Contact Information

- Address: Dept. of Mathematics, San Francisco State University, San Francisco, CA 94132
- Tel: (415)-338-7724
- E-mail: schuster@sfsu.edu
- URL: <http://math.sfsu.edu/schuster/schuster.htm>

Education

- PhD Mathematics: University of Michigan, 1997
- M.S. Mathematics: University of Michigan, 1995
- B.Sc. Mathematics: University of Toronto, 1992

Appointments

- Associate Professor, San Francisco State University, 2004–present
- Visiting Professor, Cairo University, Spring 2008
- Visiting Scholar, Harvard University, Spring 2004
- Assistant Professor, San Francisco State University, 1999–2004
- Visiting Assistant Professor, Washington University in St. Louis, 1997–1999

Research Grants

- National Science Foundation Grant DMS - 0601060 RUI: Sampling and Interpolation on Riemann Surfaces and in Several Complex Variables, 2006–2009,
- Center for Computing in the Life Sciences Mini-grant, San Francisco State University, 2006
- National Science Foundation Grant DMS - 0101530, RUI: Interpolation and Sampling in Bergman Spaces; Factors of Harmonic Polynomials, 2001–2004, (with Sheldon Axler)
- Presidential Award for Professional Development of Probationary Faculty, San Francisco State University, 2004
- Vice President's Assigned Time for Research, Scholarship and Creative Activity, San Francisco State University, 2001

- Vice President's Assigned Time for Research, Scholarship and Creative Activity, San Francisco State University, 2000
- Summer Stipend in Support of Research, Scholarship and Creative Activity, San Francisco State University, 2000

Publications

- A study of homeruns in the major leagues, preprint
- Sets of sampling and interpolation in Bergman spaces, *Proc. Amer. Math. Soc.*, **125** (1997), no. 6, 1717-1725.
- The homogeneous approximation property in the Bergman space, *Houston J. Math.*, **24** (1998), no. 4, 707-722.
- A Carleson-type condition for interpolation in Bergman spaces (with K. Seip), *J. Reine Angew. Math.*, **497** (1998), 223-233.
- Interpolation by Bloch functions, *Ill. J. Math.*, **43** (1999), no. 4, 677-691.
- On Seip's description of sampling sequences in Bergman spaces, *Complex Variables Theory Appl.*, **42** (2000) 347-367.
- Uniform densities of regular sequences in the unit disk (with P. Duren and K. Seip), *Trans. Amer. Math. Soc.*, **352** (2000), no. 9, 3971-3980.
- Weak conditions for interpolation in holomorphic spaces (with K. Seip), *Publ. Math.*, **44** (2000), 277-293.
- Multiple interpolation and extremal functions in Bergman spaces (with M. Krosky), *J. Anal. Math.*, **85** (2001) 141-156.
- Finite unions of interpolation sequences (with P. Duren), *Proc. Amer. Math. Soc.*, **130** (2002), no. 9, 2609-2615.
- Sampling sequences for Bergman spaces for $p < 1$ (with D. Varolin), *Complex Variables Theory Appl.*, **47** (2002), 243-253.
- Composition operators on the Fock space (with B. Carswell and B. MacCluer), *Acta Math. Sci. (Szeged)*, **69** (2003), no. 3-4, 871-887.
- Sampling and interpolation for Bergman spaces on Riemann surfaces (with D. Varolin), *Rev. Mat. Iberoamericana*, to appear.
- Interpolating and sampling hypersurfaces for the Bargmann-Fock space in higher dimensions, (with J. Ortega-Cerdà and D. Varolin), *Math. Ann.*, **335** (2006), no. 1, 79-107.
- The maximum principle for the Bergman space and the Möbius pseudodistance for the annulus, *Proc. Amer. Math. Soc.*, **134** (2006), 3525-3530.
- On uniformly discrete sequences in the disk (with P. Duren and D. Vukotic), *Quadrature Domains and Applications*, 131-150, Oper. Theory Adv. Appl., 156, Birkhäuser, Basel, 2005.
- Sampling and interpolation for Bergman spaces on Riemann surfaces (with D. Varolin), *Rev. Mat. Iberoamericana*, to appear.

- Some properties of the canonical divisor in the Bergman space (with Cyrus Luciano and Lothar Narins), *International Journal of Pure and Applied Mathematics*, to appear.
- Critical factors in the phylogenetic analysis of human and Neanderthal mitochondrial DNA (with Chris Moradi), preprint.

Books

- *Bergman Spaces* (with P. Duren), American Mathematical Society, Mathematical Surveys and Monographs Series, Volume 100, Providence, RI, 2004.