

Brendan J. Weickert

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VitalsStatistics

Date of birth : April 2, 1969

Citizenship : American

Education

Ph.D in Mathematics May 1997
University of Michigan, Ann Arbor, Michigan
Dissertation : Attracting basins for automorphisms of C^2
Advisor : Prof. John Erik Fornæss

A.B. in Mathematics June 1991
Princeton University, Princeton, New Jersey

Research interests

Several complex variables, dynamical systems, harmonic analysis,
mathematical physics

Professional experience

Assistant Professor 2001-present
Department of Mathematics, Washington and Lee University, Lexington, VA

Visitor 2002
Institute for Defense Analysis, Center for Communications Research, Princeton, NJ

L. E. Dickson Instructor and NSF Postdoctoral Fellow 1997-2001
Department of Mathematics, University of Chicago, Chicago, IL
(On leave Sep 1997-April 1998)

NSF Postdoctoral Fellow 1997-1998
Department of Mathematics, Harvard University, Cambridge, MA

Graduate Instructor 1992-1997
Department of Mathematics, University of Michigan, Ann Arbor, MI

Programmer 1991-1992
International Business Machines Corporation, Research Triangle Park, NC

Awards and fellowships

- Sumner B. Meyers Prize for best doctoral dissertation of 1997, University of Michigan, April 1998.
- NSF Postdoctoral Fellowship, 1997-2000, Harvard University and the University of Chicago.
- Rackham Dissertation Fellowship, 1997, University of Michigan.
- Regents' Fellowship, 1992-1995, Horace Rackham School of Graduate Studies, University of Michigan.
- Phi Beta Kappa, 1991, Princeton University.

Publications and preprints

1. Attracting basins for automorphisms of C^2 , *Inv. Math.* **132**, 3 (1998), pp. 581-605.
2. Attractors in P^2 , with J.E. Fornæss, *Math. Sci. Res. Inst. Publ.* **37**, *Cambridge Univ. Press, Cambridge*, (1999), pp. 297-307.
3. Random iteration in P^k , with J.E. Fornæss *Ergod. Theory Dynam. Sys.* **20**, 4 (2000), pp. 1091-1109.
4. A nonalgebraic attractor in P^2 , with M. Jonsson, *Proc. Amer. Math. Soc.*, **128**, 10 (2000), pp. 2999-3002.
5. A quantized Henon map, with J.E. Fornæss, *Disc. Cont. Dyn. Syst.* **6**, 3 (2000), pp. 723-740.
6. Infinite-dimensional complex dynamics: a quantum random walk, *Disc. Cont. Dyn. Syst.* **7**, 3 (2001), pp. 517-524.
7. Automorphisms of C^n , (preprint), 13 pp.
8. Seedless detection, with William Bradley and Neil Agarwal, *IDA/CCR SCAMP working paper* (2003)
9. Identifying communities, with William Bradley and Neil Agarwal, *IDA/CCR SCAMP working paper* (2003)
10. Programmer's cribsheet, with William Bradley and Neil Agarwal, *IDA/CCR SCAMP working paper* (2003)
11. Thinning an integer-valued random variable, with William Bradley (preprint), 7 pp.
12. Nonwandering, nonrecurrent Fatou components in P^2 *Pac. J. Math.* **211**, 2 (2003), pp. 391-397
13. Quantizations of linear self-maps of R^2 (to appear in *Acta. Sci. Math.*), 11 pp.
14. Spectral properties and dynamics of a quantized Henon map (to appear in *Trans. Amer. Math. Soc.*), 18 pp.

Invited conference and seminar talks

Michigan State Analysis Seminar, 1997
Harvard Complex Analysis Seminar, 1997
Boston University Dynamics Seminar, 1997
University of Chicago Complex Analysis Seminar, 1997
Joint Meetings of the AMS and MAA, San Diego, 1997
Johns Hopkins JAMI, 1998
Purdue University Analysis Seminar, 1998
Midwest Several Complex Variables conference, Ann Arbor, 1999
University of Chicago Geometry/Topology Seminar, 1999
University of Illinois, Chicago, Analysis Seminar, 1999
Biholomorphic Mappings conference, Amer. Inst. Math., 2000
Notre Dame Analysis Seminar, 2000
Kansas State University Colloquium, 2001
Washington and Lee University Colloquium, 2001
College of the Holy Cross Colloquium, 2001
Allegheny College Colloquium, 2001
Midwest Several Complex Variables conference, Ann Arbor, 2001
SUNY at Stony Brook Dynamical Systems Seminar, 2002
YAMS conference, Furman University, 2003
Midwest Several Complex Variables conference, Syracuse, 2003