Curriculum Vitae
Steven P. Kerckhoff

Education

Princeton University, Ph.D., 1978 (Thesis Advisor: William P. Thurston)
Princeton University, M.A., 1975
Harvard University, B.A., 1974

Employment

Stanford University, Grimmett Professor of Mathematics, 2012-present
Stanford University, Professor, 1989-present, Chair, 2010-2013
Member, IHES, May-July 2008
Professeur Invite, Toulouse (January-February), Orsay (March), ENS (April), 2008
Member, IHES, September, December 2001, January 2002
Professeur Invite, Orsay (October), ENS (November), 2001
Visiting Professor, Princeton University, 1989-1990
Member, Institute for Advanced Study, 1989-1990
Stanford University, Associate Professor, 1985-1989
Member, Mathematical Sciences Research Institute, Berkeley, 1984-85
Member, Institute for Advanced Study, Princeton, 1983-84
Stanford University, Assistant Professor, 1981-85
University of California, Berkeley, Lecturer, 1979-81
Member, Institute for Advanced Study, 1978-79

Awards and Grants

NSF Network Grant (co-PI), 2011-2016, $5 M
NSF Research Training Grant (PI), 2005-2013, $2 M
NSF Research Grants (through 2016)
Invited Speaker (50 min.), AMS National Meeting (Summer), 1987
Sloan Fellowship, 1984-86
Dean's Award for Teaching, Stanford University, 1983-84
Invited Speaker (45 min.), International Congress of Mathematicians, 1983
American Mathematical Society Postdoctoral Fellowship, 1978-79

Professional Service Positions

Mathematical Sciences Research Institute, Trustee, 1992-1999.
MSRI, Committee of Academic Sponsors, chair, 1996-1999.
MSRI Introductory Workshop (research and outreach), organizer, Jan. 1995.
Pacific Journal, editor, 1988-1998.
CA State Board of Education, Mathematics Standards for K-12 Education, consultant, 1998-1999.
CA State Board of Education, Content Review Panel for K-8 Mathemtics Textbooks, member, 1999 (reappointed, 2000).

Thesis Advisor and Postgraduate-Scholar Sponsor for:

Michael Wolf, PhD 1986 (Rice University)
David Mullins, PhD 1991 (New College, FL)
Ken Bromberg, PhD 1998 (University of Utah, Salt Lake City)
Young-Eun Choi, PhD 2000 (Berkeley Law School, student)
Jessica Purcell, PhD 2004 (Brigham Young University)
David Futer, PhD 2005 (Temple University)
Henry Segerman, PhD 2007 (University of Melbourne, Australia)
Daniel Mathews, PhD 2009 (Boston College)
Jeffrey Brock, NSF Postdoc and Szego 1997-2000 (Brown University)
Peter Storm, NSF Postdoc and Szego 2004-2007 (Jane Street Capital)
Alexandra Pettet, RTG Postdoc and Szego 2006-2008 (University of British Columbia)
Jason Deblois, RTG Postdoc 2010-2011 (University of Pittsburgh)
Jeffrey Danciger, PhD 2011 (University of Texas, Austin)
Kenji Kozai, PhD 2013 (University of California, Berkeley)

BIBLIOGRAPHY

Steven P. Kerckhoff

1. "The Asymptotic Geometry of Teichmuller Space", **Topology** 19, (1980), 23-41.
2. "The Nielsen Realization Problem", **Bull. Amer. Math. Soc.**, Vol. 2, No. 3, (1980), 452-454.
3. "The Nielsen Realization Problem", **Annals of Math.** 117, (1983), 235-265.
4. "The Geometry of Teichmuller Space", **Proceedings of the International Congress of Mathematicians**, Warsaw, (1983), 665-678.
5. "Simplicial Systems for Interval Exchange Maps and Measured Foliations", **Ergodic Theory and Dynamical Systems** 5,(1985), 257-271.
6. "Earthquakes are Analytic", **Comm. Math. Helv.** 60, (1985), 17- 30.
7. "A Rational Billiard Flow is Uniquely Ergodic in Almost Every Direction" (with H. Masur and J. Smilllie), **Bull. Amer. Math. Soc.**, Vol.2, No.3, (1985), 142-142.
8. "Ergodicity of Billiard Flows and Quadratic Differentials" (with H. Masur and J. Smillie), **Annals of Math.** 124, (1986), 293-311.
9. "The Non-continuity of the Action of the Mapping Class Group at Bers' Boundary of Teichmuller Space", (with W. Thurston), **Inventiones Math.** 100, (1990), 25-47.
10. "The Measure of the Limit Set of the Handlebody Group", **Topology** 29, (1990), 27-40.
11. "Lines of Minima in Teichmuller Space", **Duke Math. Journal** 65, (1992), 187-213.
12. "Deformations of hyperbolic cone-manifolds", *Proceedings of the 37th Taniguchi Symposium on Topology and Teichmuller Spaces*, S. Kojima (ed.), World Scientific Publishing Co., (1996).
13. "Rigidity of hyperbolic cone-manifolds and hyperbolic Dehn surgery", (with C. Hodgson), **Journal of Differential Geometry** 48, (1998), 1-59.
14. "Three dimensional orbifolds and cone manifolds", monograph, (with D. Cooper and C. Hodgson), **Memoirs of the Mathematical Society of Japan**, Volume 5, (2000).
15. "The orbifold theorem", (with D. Cooper and C. Hodgson), lecture notes, Lecture Series at Regional Workshop, Tokyo, (1998).
16. "The orbifold theorem", (with D. Cooper and C. Hodgson), preprint (2001).

17. "Harmonic deformations of hyperbolic 3-manifolds", (with C. Hodgson),in *Kleinian Groups and Hyperbolic 3-Manifolds*, Y.Komori, V. Markovic, C. Series (eds.), Cambridge University Press, 2003.

18. "Universal bounds for hyperbolic Dehn surgery", (with C. Hodgson), **Annals of Mathematics**, 162, (2005), 367-421.

19. "The shape of hyperbolic Dehn surgery space", (with C. Hodgson), **Geometry and Topology** 12 (2008), 1033-1090.

20. "Thurston's geometrization conjecture", (with D. Gabai), **Clay Foundation Annual Report** (2009), 32-38.

21. "From the hyperbolic 24-cell to the cuboctahedron", (with P. Storm), **Geometry and Topology** 14 (2010), 1383-1477.

22. "Local rigidity of compact hyperbolic manifolds with geodesic boundary", (with P. Storm), **Topology** 5 (2012), 757-784.

23. "The structure of non-compact euclidean cone manifolds", (with D. Cooper and C. Hodgson), preprint (2013).

24. "The transition between hyperbolic, euclidean, and spherical structures using projective geometry", (with D. Cooper), in preparation.