

CURRICULUM VITAE

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Mailing Address

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Research Interests

Differential Geometry (53), Discrete Groups (22), and Partial Differential Equations (35).

Education

- Ph. D. in Mathematics, 1998, Harvard University, Cambridge, MA, U.S.A. Thesis advisor Professor Shing-Tung Yau, “*Generalized harmonic maps and representations of discrete groups*”.
- M.S. in Mathematics, 1992, National Taiwan University, Taipei, Taiwan.
- B.S. in Mathematics, 1988, National Taiwan University, Taipei, Taiwan.

Employment

- 2004-present: Associate Professor, Department of Mathematics, Columbia University.
- 2001-2004: Assistant Professor, Department of Mathematics, Columbia University.
- 1998-2001: Szëgo Assistant Professor, Department of Mathematics, Stanford University.

Publications

1. (with Y.-I. Lee) “Hamiltonian stationary shrinkers and expanders for Lagrangian mean curvature flows”, preprint. arXiv:0707.0239

2. (with Y.-I. Lee) “A note on the stability and uniqueness for solutions to the minimal surface system”, preprint. arXiv:math/0702303
3. (with S.-T. Yau) “A generalization of Liu-Yau’s quasi-local mass”, to appear in *Comm. Anal. Geom.* arXiv:math/0602321
4. “A convergence result of the Lagrangian mean curvature flow”, to appear in the *Proceedings of the third International Congress of Chinese Mathematicians.* arXiv:math/0508354
5. “Subsets of Grassmannians preserved by mean curvature flow”, *Comm. Anal. Geom.* 13 (2005), no.5.
6. “Remarks on a class of solutions to the minimal surface system” *Geometric evolution equations*, 229-235, *Contemp. Math.*, 367, Amer. Math. Soc., Providence, RI, 2005.
7. (with M.-P. Tsui) “Mean curvature flows and isotopy of maps between spheres”, *Comm. Pure. Appl. Math.* 57 (2004), no. 8 , 1110-1126.
8. “Interior gradient bounds for solutions to the minimal surface system”, *Amer. J. Math.* 126 (2004), no.4, 921-934.
9. “The mean curvature flow smoothes Lipschitz submanifolds”, *Comm. Anal. Geom.* 12 (2004) no. 3, 581-599.
10. “The Dirichlet problem for the minimal surface system in arbitrary codimension”, *Comm. Pure. Appl. Math.* 57 (2004), no. 2, 267-281.
11. “Gradient estimates for mean curvature systems”, *Abstract and applied analysis*, 385-392, World Sci. Publ., River Edge, NJ, 2004.
12. (with Y.-I. Lee) “A stability criterion for nonparametric minimal submanifolds”, *Manuscripta Mathematica.* 112 (2003), no. 2, 161-169.
13. “Gauss maps of the mean curvature flow”, *Math. Res. Lett.* 10 (2003), no. 2-3, 287-299.
14. “Mean curvature flow in higher codimension”, in the *Proceedings of the second International Congress of Chinese Mathematicians*, 2002.
15. “On graphic Bernstein type results in higher codimension”, *Trans. Amer. Math. Soc.* 355 (2003), no. 1, 265-271.

16. (with K. Smoczyk) “Mean curvature flows of Lagrangian submanifolds with convex potentials”, *J. Differential Geom.* 62 (2002), no. 2, 243-257.
17. (with M.-P. Tsui) “A Bernstein type result for special Lagrangian submanifolds”, *Math. Res. Lett.* 9 (2002), no.4, 529-536.
18. “Long-time existence and convergence of graphic mean curvature flow in arbitrary codimension”, *Invent. Math.* 148 (2002) 3, 525-543.
19. “Deforming area preserving diffeomorphism of surfaces by mean curvature flow”, *Math. Res. Lett.* 8 (2001), no.5-6, 651-662.
20. “Mean curvature flow of surfaces in Einstein Four-Manifolds”, *J. Differential Geom.* 57 (2001), no.2, 301-338.
21. “Generalized harmonic maps and representations of discrete groups”, *Comm. Anal. Geom.* 8 (2000), no. 3, 545-563.
22. “On representations of complex hyperbolic lattices”, *Math. Res. Lett.* 6 (1999), no.1, 99-105.
23. “A fixed point theorem of isometry action on Riemannian manifolds”, *J. Differential Geom.* 50 (1998), no.2, 249-267.
24. “Generalized harmonic maps and representations of discrete groups”, Thesis-Harvard University, 1998.
25. (with C. Lin) “A note on the exhaustion function for complete manifolds”, *Tsing Hua lectures on geometry and analysis (Hsinchu, 1990-1991)*, 269-277, Internat. Press, Cambridge, MA, 1997.

Awards and Grants

- Chern Prize, International Congress of Chinese Mathematicians, 2007.
- Kavli Fellow, National Academy of Sciences, 2007.
- Sloan Research Fellow, Alfred P. Sloan Foundation, 2003-2005.
- Harold M. Bacon Memorial Teaching Award, Stanford University, 2000.
- National Science Foundation Grant, 2001-present.