Curriculum Vitae, Wayne Rossman

ADDRESS:	Faculty of Science, Kobe University, Rokko 1-1, Kobe 657-8501, Japan **Telephone:** 81-078-803-5623 (office) -5608 (department secretary) **FAX:** 81-078-803-5610 **E-mail:** wayne@math.kobe-u.ac.jp
BIRTHDATE:	January 11, 1965
CITIZENSHIP:	U.S.A.

EDUCATION:

Sept, 1979–May, 82	Highland Park Senior High, MN	High School Diploma
Sept, 1982–May, 86	Hampshire College, Massachusetts	B.A. Mathematics
Sept, 1986–May, 88	University of Massachusetts, Amherst	M.S. Mathematics
Sept, 1988–Sept, 92	University of Massachusetts	Ph.D. Mathematics

POSITIONS:

I) Associate Professor, Kobe University, Kobe, Japan, October 1998 - present.
II) Sfb288 Grant, Technische Universität Berlin, Germany, April 1999 - October 1999.
III) Assistant Professor, Kyushu University, Fukuoka, Japan, March 1996 - September 1998.
IV) CNPq Fellowship, Universidade Federal do Ceara, Fortaleza, Brazil, April 1996 - March 1997.
V) Assistant Research Professor, University of Calif.–Davis, U.S.A., July 1992 - March 1993, April 1994 - June 1994.
VI) JSPS Post-doctoral Fellowship, Tôhoku University, Sendai, Japan, April 1993 - April 1994, August 1994 - March 1996.

PUBLICATIONS, PREPRINTS:

1. Constant mean curvature surfaces of any positive genus (with M. Kilian, S-P. Kobayashi and N. Schmitt). J. London Math. Society 72 (2005), 258-272.

2. The first bifurcation point for Delaunay nodoids. J. Exp. Math. 14:3 (2005), 331-342.

3. Infinite Periodic Discrete Minimal Surfaces without Self-intersections. Balkan J. Geom. Appl. 10(2) (2005), 106-128.

4. Loop group methods for constant mean curvature surfaces (with S. Fujimori and S-P. Kobayashi). Rokko Lectures in Math. 17 (2005).

5. Constructing Mean Curvature 1 Surfaces in $\mathbb{H}^3$ with Irregular Ends (with M. Umehara, K. Yamada). Global Theory of Minimal Surfaces, Proceedings of the Clay Mathematics Institute 2001 Summer School, vol. 2 (2005), 561-584, CMI/AMS publication, Editor: David Hoffman.

6. Mean Curvature 1 Surfaces in $\mathbb{H}^3$ with low total curvature I (with M. Umehara, K. Yamada). Hiroshima Math. J. 34 (2004), 21-56.

7. Mean Curvature 1 Surfaces in $\mathbb{H}^3$ with low total curvature II (with M. Umehara, K. Yamada). Tohoku Math. J. 55 (2003), 375-395.

8. Discrete Constant Mean Curvature Surfaces and their Index (with K. Polthier). J. Reine. U. Angew. Math. 549 (2002), 47-77.

9. Index growth of hypersurfaces with constant mean curvature (with P. Berard, L. L. de Lima). Math Z. 239 (2002), 99-115.

10. Lower bounds for Morse index of constant mean curvature tori. Bull. London Math. Soc. 34 (2002), 599-609.

11. Constant mean curvature 1 surfaces with low total curvature in hyperbolic 3-space (with M. Umehara, K. Yamada). Advanced Studies in Pure Math., Minimal Surfaces, Geometric Analysis and Symplectic Geometry 34 (2002), 245-253.

12. Discrete spectrum and Weyl's asymptotic formula for incomplete manifolds (with Jun Masamune). Advanced Studies in Pure Math., Minimal Surfaces, Geometric Analysis and Symplectic Geometry 34 (2002), 219-229.

13. The Morse Index of Wente Tori. Geom. Dedicata 86 (2001), 129-151.

14. Mean curvature one surfaces in hyperbolic space, and their relationship to minimal surfaces in Euclidean space. J. Geom. Anal. 11(4) (2001), 669-692.

15. Lower bounds for index of Wente tori (with L. L. de Lima, V. F. de Sousa Neto). Hiroshima Math. J. 31(2) (2001), 183-199.

16. Techniques for studying CMC 1 surfaces in hyperbolic three-space. Tohoku Math. Publ. 20 (2001), 153-162. (Preliminary version of item 14 above.)

17. Discrete constant mean curvature surfaces and their index, preliminary version (with K. Polthier). Surikaiseki kenkyusho kokyuroku 1221 (2001), 58-69. (Preliminary version of item 8 above.)

18. Mean curvature 1 surfaces in hyperbolic 3-space (with M. Umehara and K. Yamada). EG-Models numbered 2001: 01.048, 01.049, 01.050.

19. Discrete minimal and constant mean curvature surfaces (with K. Polthier). EG-Models numbered 2000: 05.002, 11.040, 11.041, and 2001: 01.043, 01.044, 01.045, 01.046, 01.047.

20. Embedded, Doubly Periodic Minimal Surfaces (with E. Thayer, M. Wholgemuth). J. Exp. Math., 9(2) (2000), 197-219.

21. On Embeddedness of Area-Minimizing Disks, and an Application to Constructing Complete Minimal Surfaces. J. Math. Soc. Japan, 52(1) (2000), 25-40.

22. A New Flux for Mean Curvature 1 Surfaces in Hyperbolic 3-space, and Applications (with M. Umehara, K. Yamada). Proc. A.M.S. 12(7) (1999), 2147-2154.

23. Wente Tori and Morse Index. An. Acad. Bras. Ci. 71(4-I) (1999), 607-613. (Preliminary version of item 13 above.)

24. Minimal Surfaces with Planar Boundary Curves. Kyushu J. of Math., 52(1) (1998), 209-225.

25. On the Index of Mean Curvature 1 Surfaces in $\mathbb{H}^3$ (with Levi Lima). Indiana Univ. Math. J. 47(2) (1998), 685-723.

26. Constant Mean Curvature Surfaces in Hyperbolic 3-Space with Two Ends (with K. Sato). J. Exp. Math. 7(2) (1998), 101-119.

27. Minimal and Constant Mean Curvature Surfaces in $\mathbb{R}^3$ and $\mathbb{H}^3$. Topology and Geometry, Proceedings of Workshop in Pure Math., Korean Acad. Council 17(III) (1998), 161-194.

28. Irreducible CMC-c Surfaces in $\mathbb{H}^3(-c^2)$ (with M. Umehara, K. Yamada). Tohoku Math. J., 49 (1997), 449-484.

29. Limits of Riemann's Examples (with David Hoffman). J. Geom. Anal. 7(1) (1997), 161-171.

30. Minimal Surfaces with Catenoid Ends (with Jorgen Berglund). Pacific J. Math. 171 (1995), 353-371.

31. Minimal Surfaces in $\mathbb{R}^3$ with Symmetry Group $D_n \times Z_2$. Tohoku Math J. 47 (1995), 31-54.

32. New Examples of Minimal Surfaces. Research Bulletin of the First MSJ International Research Institute, Tohoku University (1993), 369-377. (Preliminary version of item 31 above.)

33. Singularities of flat fronts in hyperbolic space (with M. Kokubu, K. Saji, M. Umehara, K. Yamada). To appear in Pacific J. Math.

34. Period Problems for Mean Curvature 1 Surfaces in $\mathbb{H}^3$ (with application to surfaces of low total curvature). (with M. Umehara, K. Yamada). To appear in Advanced Studies in Pure Mathematics, Surveys on Geometry and Integrable Systems.

35. Flat fronts in hyperbolic 3-space and their caustics (with M. Kokubu, M. Umehara, K. Yamada). Preprint.

36. Constant mean curvature surfaces with Delaunay ends in 3-dimensional space forms (with M. Kilian, S-P. Kobayashi and N. Schmitt). Preprint.