CURRICULUM VITAE

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Research Interests:

> Topology and Geometry: Low-dimensional Topology, Geometric Topology: projective structures and representations, hyperbolic structures on 3-manifolds, Kleinian groups, foliations, orbifolds, geometric structures.

Education

> September 1984–June 1988, Princeton University, Princeton, NJ.
> > Ph.D. in *mathematics*, June 1988, Thesis Advisor: William P. Thurston, Fellowship (1984–1985), Research and Teaching Assistant (1985–1988).
>
> September 1982–August 1984, University of Pennsylvania, Philadelphia, PA.
> > B.A. in *mathematics*, August 1984, Magna Cum Laude, Honors, University Scholar, U. Pennsylvania Presidential Scholarship.

Experiences

> September 1, 2004–present, KAIST, Professor.
> October 1, 2003–August 31, 2004, Seoul National University, Professor.
> January 1, 2001–August 31, 2001, Stanford University, Visiting Scholar.
> September 1, 2001–December 31, 2001, Boston University, Visiting Scholar.
> February 1, 1999–February 28, 1999, IHES, Orsay, France, Visitor.
> October 1, 1998–September 30, 2003, Seoul National University
> > Associate Professor.
>
> September 1, 1994–September 30, 1998, Seoul National University
> > Assistant Professor.
>
> September 3, 1991–August 31, 1994, Kyungpook National University
> > Post. Doc., Researcher (1991–1993), Assistant Professor (1993–1994).
>
> August 20, 1988–May 20, 1990, University of Illinois, Urbana-Champaign
> > Visiting Assistant Professor (Post-Doc. position).

Publication list:

> 22. *Maximal tubes in hyperbolic-cone manifolds*, preprint (with Jungkeun Lee), pp. 1–28.to appear in the Siberian Journal of Mathematics.
> 21. *The deformation spaces of projectively flat structures on orbifolds*, preprint (with William Goldman) American Journal of Mathematics 127 (2005) pp. 1019–1102.

20. *Geometric structures on orbifolds and holonomy representations* Geometriae Dedicata 104 (2004), pp. 161–199.

19. *Geometric structures on low-dimensional manifolds*, Journal of Korean Mathematical Society 40 (2003), 319–340.

18. *The Chern conjecture for affinely flat manifolds using combinatorial methods*, Geometriae Dedicata 97 (2003), 81–92.

17. *The decomposition and classification of radiant affine 3-manifolds*, Mem. Amer. Math. Soc. vol. 730, pp. 1–122, (2001) (with an appendix by Thierry Barbot and Suhyoung Choi).

16. *Convex and concave decomposition of manifolds with real projective structures*, Mem. Soc. Math. France vol. 78, pp. 1–106 (1999).

15. *The universal cover of an affine three-manifold with holonomy of infinitely shrinkable dimension ≤ 2*, International Journal of Mathematics 11 (2000), 305–365.

14. *The proceedings of the conference on geometric structures*, editor, GARC-Lecture Notes No 46. 1999 (with Hyuk Kim and Hyunkoo Lee).

13. *Geometry and Topology, the proceedings of Daewoo workshop*, editor 1998.

12. *The universal cover of an affine three-manifold with holonomy of discompactedness two*, Geometry, topology and physics (Campinas, 1996), 107–118, de Gruyter, Berlin 1997.

11. *Geometric structures on manifolds and holonomy-invariant metrics*, Forum Math. 9 (1997), no. 2, 247–256 (with Hyunkoo Lee).

10. *Convex decompositions of real projective surfaces. III: For closed or nonorientable surfaces*, J. Korean Math. Soc. 33 (1996), no. 4, 1139–1171.

9. *The classification of real projective structures on compact surfaces*, Bull. Amer. Math. Soc. 34 (1997), 161–171 (with W. M. Goldman).

8. *The Margulis lemma and the thick and thin decomposition for convex real projective surfaces*, Advances in Math. 122 (1996), 150–191.

7. *Topology, the proceedings of conference held in honor of Professor Jaepill Kim*, editor 1995 (with Hyuk Kim and Hyunkoo Lee).

6. *Convex decompositions of real projective surfaces. II: Admissible decompositions*, J. Differential Geometry 40 (1994), 239–283.

5. *Convex decompositions of real projective surfaces. I: π-annuli and convexity*, J. Differential Geometry 40 (1994), 165–208.

4. *Real projective manifolds developing into an affine space*, Internat. J. Math. 4 (1993), no. 2, 179–191 (with Y. Chae and C. Park).

3. *i-convexity of real projective manifolds*, Proc. Amer. Math. Soc. 122 (1994), 545–548.

2. *Convex real projective structures on closed surfaces are closed*, Proc. Amer. Math. Soc. 118 (1993), 657–661 (with W. M. Goldman).

1. *Real projective surfaces*, Ph.D. Thesis, Princeton University, June 7, 1988.