Ph.D. University of Iowa 1983, area in geometric topology especially knot theory.

Faculty in the Department of Mathematics & Statistics, Saint Louis University.

    1983 to 1987: Assistant Professor

    1987 to 1994: Associate Professor

    1994 to present: Professor

1. Evidence of teaching excellence

Certificate for the nomination for best professor from Reiner Hall students, 2007.

2. Research papers

    1. Non-algebraic killers of knot groups, Proceedings of the America Mathematical Society 95 (1985), 139-146.

    2. Algebraic meridians of knot groups, Transactions of the American Mathematical Society 294 (1986), 733-747.

    3. Isomorphisms and peripheral structure of knot groups, Mathematische Annalen 282 (1988), 343-348.

    4. Seifert fibered surgery manifolds of composite knots, (with John Kalliongis) Proceedings of the American Mathematical Society 108 (1990), 1047-1053.

    5. A note on incompressible surfaces in solid tori and in lens spaces, Proceedings of the International Conference on Knot Theory and Related Topics, Walter de Gruyter (1992), 213-229.

    6. Incompressible surfaces in the knot manifolds of torus knots, Topology 33 (1994), 197-201.

    7. Topics in Classical Knot Theory, monograph written for talks given at the Institute of Mathematics, Academia Sinica, Taiwan, 1996.

    8. Bracket and regular isotopy of singular link diagrams, preprint, 1998.

9. Regular isotopy of singular link diagrams, Proceedings of the American Mathematical Society 129 (2001), 2497-2502.

10. Normal holonomy and writhing number of polygonal knots, (with James Hebda), Pacific Journal of Mathematics 204, no. 1, 77 - 95, 2002.

11. Framing of knots satisfying differential relations, (with James Hebda), Transactions of the American Mathematics Society 356, no. 1, 267 - 281, 2003.

12. Linking number of singular links and the Seifert matrix, (with Chun-Chung Hsieh and James Hebda), Canadian Mathematics Bulletin Vol. 50 (3), 2007 pp. 390 - 398.

13. Normal holonomy and writhing number of smooth knots (with James Hebda), Journal of Knot Theory and Its Ramifications, Vol.17, No. 12 December 2008, pp. 1483-1509.

14. Dehn surgery on singular knots (with Simrat Ghuman and Larry Granda), Journal of Knot Theory and Its Ramifications, vol. 18, No. 4, April 2009 pp. 547-560.

15. An approach to higher order linking invariants through holonomy and curvature (with James Hebda), Transactions of American Math Society, 364 (2012), 4283-4301.

16. The topology of the coefficients of the Alexander- Conway polynomials. Journal of Knot Theory and Its Ramifications, vol. 25, No. 2, April 2016, 13 pp.

17. A combinatorial formula for higher order linking number (with Chun-Chung Hsieh and Louis Kauffman). Asian Journal of Mathematics, 21 (2017), no.2, 265 - 286.

3. Lectures and Papers Presented in last 10 years:

Colloquium, Chern Institute of Mathematics, Tian-Jin, China, August 29, 2006. Lecture: Dehn surgery on singular knots.

Institute of Mathematics, Academia Sinica, Taipei, Taiwan, June 20, 2012. Seminar lecture: A combinatorial formula for the higher order linking numbers.

Special session of the regional meeting of American Mathematics Society at Washington University, St. Louis, Missouri, April 15, 2013. Talk : The topology of the coefficients of the Alexander- Conway polynomials.

Institute of Mathematics, Academia Sinica, Taipei, Taiwan, September 2 & September 9, 2016. Seminar lectures: (1) On the topology of the coefficients of Alexander-Conway polynomials. (2) Twisted S^1-bundle over Klein bottle.

Department of Mathematics, National Central University, Chun-Li, Taiwan, September 30, 2016. Seminar lecture: On the topology of the coefficients of Alexander- Conway polynomials.

4. Other Research Related Activities :

Review published papers of mathematical journals for Mathematics Reviews, 1989 - present; and for Zentralblatt Mathematics, 2008 - present.

Referee for The Journal of Knot Theory and Its Ramifications, 1993, 1994, 2006, 2016.