Ronald J. Gould
Goodrich C. White Professor Emeritus (retired Sept. 1, 2016)
Emeritus Vita

Degrees: Ph.D. (1979) Western Michigan University (Mathematics)
M.S. (1978) Western Michigan University (Computer Science)
B.S. (1972) SUNY at Fredonia (Mathematics)

Experience: 9.1.2016 Goodrich C. White Prof. Emeritus
2001-2016 Goodrich C. White Professor, Emory University
1990-2001 Professor, Emory University
1985-1990 Associate Professor, Emory University
1979-1985 Assistant Professor, Emory University
1978-1979 Lecturer, San Jose State University
1973-1979 T. A. and Doctoral Fellow, Western Michigan University
1972-1973 T. A., SUNY at Fredonia

Ed. Boards: INVOLVE
Bulletin of the Institute for Combinatorics and its Applications
J. Combin. Inform. & System Sciences
Ars Combinatoria
J. Combinatorial Math. and Combinatorial Computing till 2022

Honors: 2025 EUEC Distinguished Service Award
2024-25 EUEC Bianchi - Bugge Award
2018 Emory Emeritus College Faculty Award of Distinction
2017 Heilbrun Distinguished Emeritus Fellow

Service to Emeritus College: Executive Commmittee 2019 - date, Mind Matters Committee 2018 - date, Chair 9.22-date, Awards Committee 2021-date, Zoom Team 2021 - date, Retirement Seminar Panels 2019, 2024

Book Chapters: Developments on Saturated Graphs, *50 Years of Combinatorics, Graph Theory, and Computing*, CRC Press, Ed. by F. Chung, R. Graham, F. Hoffman, L. Hogben, R. Mullin, and D.West. Discrete Math. Appl., CRC Press, Boca Raton, FL (2020).

Book Reviews: Luck, Logic, and White Lies. The Mathematics of Games, Second Edition by Jörg, Bewersdorff, CRC Press(2021). For *Mathematical Intellingencer*, Vol. 44, Sept. 2022, Issue 3, pp 286-287.

Research Publications:

1. Minimum degree and dominating paths, with R. J. Faudree, M. S. Jacobson and D. B. West, *J. Graph Theory* 84(2017), no. 2, 202-213.

2. A note on Extending Bondy's meta-conjecture, with M. Cream and K. Hirohata. *Austral. J. of Combin.* 67(2017), 463-469.

3. Placing vertices at precise locations on a hamiltonian cycle, with C. Magnant and P. S. Nowbandegani. *Graphs & Combin.* 33(2017), no 2, 369-385.

4. Saturation spectrum of paths and stars, with J. Faudree, R. Faudree, M. Jacobson and B. Thomas. *Discussiones Math Graph Theory* 37(2017), no. 3, 811-822.

5. Forbidden subgraphs for chorded Pancyclicity , with M. Cream and V. Larsen. *Discrete Math.* 340(2017), no. 12, 2878-2888.

6. On vertex disjoint cycles and degree sum conditions, with K. Hirohata and A. Keller. *Discrete Math.* 341(2018), no. 1, 203-212.

7. On $K_t - e$ Saturated graphs, with J. Fuller. *Graph and Combin.* 34(2018), no. 1, 85-95.

8. Cycles with a chord in dense graphs, with G. Chen, X. Gu, and A. Saito. *Discrete Math.* 341(2018), no. 8, 2131-2141.

9. Degree sum and vertex dominating paths, with J. R. Faudree, R.J. Faudree, P. Horn and M. S. Jacobson. *J Graph Theory* 89(2018), no. 3, 250-265.

10. A generalization of a result of Catlin: 2-factors in line graphs, with Emily Hynds. *Australasian J. Combin.* 72 (2018), 164-184.

11. Extending vertex and edge pancyclic graphs, with M. Cream and K. Hirohata. *Graphs Combin.* 34(2018), no. 6, 1691-1711.

12. Gaps in the saturation spectrum of trees, with P. Horn, M. S. Jacobson and B. Thomas. *Discuss. Math. Graph Theory* 39(2019), no. 1, 157-170.

13. On a conjecture on spanning trees with few branch vertices, with W. Shull. *J. Combin. Math. Combin. Computing* 108(2019), 259-283.

14. On spanning trees with few branch vertices, with W. Shull. *Discrete Math.* 343 (2020), no. 1, 111587, 7pp.

15. Spanning bipartite graphs with high degree sum in graphs, with G. Chen, S. Chiba, X. Gu, A. Saito, M. Tsugaki and Tomoki Tamashita. *Discrete Math.* 343 (2020).

16. On independent triples and vertex-disjoint chorded cycles in graphs, with K. Hirohata and A. Keller. *Australasian J. Combin.* 77(3), 355-372 (2020).

17. On degree sums comditions and vertex-disjoint chorded cycles, with B. Elliott and K. Hirohata. *Graphs & Combin.* 36(2020), no. 6, 1927–1945.

18. Structure of sparse k-critical graphs, with V. Larsen and L. Postle, *J. Combin. Theory B.* Vol. 156, (2022) pp194–222.

19. Results and Problems On Chorded Cycles: A Survey, *Graphs and Combinatorics*, 38 (2022), no. 6, 189.

20. On Fan Saturated Graphs, with Jessica Fuller, *INVOLVE* Vol. 16, No. 4, 2023, pp 637–657.

21. On the saturation spectrum of odd cycles, with A. Kündgen and M. Kang. *J. Graph Theory.* (2023), 1–12. https://doi.org/10.1002/jgt.23052.

22. Chorded k-pancyclic and weakly k-pancyclc graphs, with M. Cream. *Discussiones Mathematicae Graph Theory*,44 (2024), pp 337–350.

23. Chorded pancyclicity with distance two degree condition and doubly chorded pancyclicity, with M. Cream and K. Horohata. *Australasian J. Combinatorics.* Vol. 88(1) (2024), pp 97–108.

24. On vertex-disjoint chorded cycles and degree sum conditions, with K. Horohata and A. K. Rorabaugh. *J. Combin. Math Combin. Comp.* Vol 120: pp 75–90. DOI:10.61091/jcmcc120-007.

Papers Submitted:

25. Chorded Cycles in Chvátal-Erdös Graphs, with A. Bickle and M. Cream. *Discrete Math.*

26. A Fan-type degree condition for the existence of disjoint cycles in a graph, with K. Hirohata. *Australasian J. Combinatorics*

Ph.D. Students Directed: Jessica Fuller, On Saturation Spectrum, May 2017.
Warren Shull, On spanning trees with few branch vertices, May 2018.
Ariel Keller, On chorded cycles and degree conditions, May 2018.

Talks Presented: 47 since retirement.