

Curriculum Vita

Ratti, Jogindar S.

Professor of Mathematics
University of South Florida
Tampa, Florida

EDUCATION:

| | | |
|-------|------|------------------------|
| B.S. | 1955 | University of Bombay |
| M.S. | 1958 | University of Bombay |
| Ph.D. | 1966 | Wayne State University |

PROFESSIONAL EXPERIENCE:

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|------------------------|--------------|-----------------------------------|
| Professor | 1972–Present | University of South Florida |
| Professor and Chairman | 1969–1972 | University of South Florida |
| Associate Professor | 1967–1969 | University of South Florida |
| Assistant Professor | 1966–1967 | Oakland University |
| Instructor | 1965–1966 | Wayne State University |
| Instructor | 1963–1965 | University of Nevada at Las Vegas |
| Research Associate | 1961–1963 | Wayne State University |
| Lecturer | 1958–1961 | University of Bombay |

RESEARCH INTEREST:

Summability, Univalent Functions, Graph Theory, Functional Equations, Probability

PROFESSIONAL MEMBERSHIPS:

American Mathematical Society
Mathematical Association of America

HONORS AND AWARDS:

University of South Florida, *Outstanding Undergraduate Teaching Award* (1997)
University of South Florida, *TIP Award* (1995)
Open Merit Scholar, Government of India
Fellow, Khalsa College, University of Bombay
American Men and Women of Science
Who's Who in America
Who's Who in the South
Mathematics Who's Who

PROFESSIONAL ACTIVITIES:

Professional Society Meetings: Presented research papers at several (more than 15) National and/or Regional Meetings of the American Mathematical Society and Mathematical Association of America.

Attended and/or presented invited talks at several international conferences, including India, Canada, Greece and France.

Journal Reviewer: Zentralblatt für Mathematik, Mathematical Reviews

Book Reviewer: Houghton Mifflin
MacMillan
Holt, Rhinehart & Winston
Prentice Hall
Addison-Wesley
Wiley
Prindle, Webber and Schmidt

Referee: Proceedings, American Mathematical Society
Proceedings, National Institute of Science of India
Indian Journal of Mathematics
Publicationes Mathematicae Debrecen

COMMITTEES:

University

Chairman, Computer Science Council
Ph.D. Advisory Committee
CAS/CE Articulation Committee
Judicial Officer
Liberal Arts Curriculum

College

College Promotion Committee
College Tenure Committee
College Space Committee

Department

Chairman, Mathematics Department
Chair/Member, Department Advisory Committee
Chair/Member, Graduate Committee
Chair/Member, Undergraduate Committee
Chair/Member, New Appointments Committee
Chair/Member, Travel Committee
Member, Colloquium Committee
Member, Math Field Day Committee
Chair/Member, Several Ad-hoc Committees
Member, Mathematics–Statistics Liaison Committee

GRADUATE STUDENTS:

Master's Level:

1. Directed two students for Master's Thesis at Oakland University, 1966–1967.
2. Participated in Master's Oral Examination Committees for over fifty students at the University of South Florida.

Ph.D. Level:

Served on the Dissertation Supervisory Committee for the following students:

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|--------------------|------------------|
| Richard Welch | Robert Jernigan |
| Curtis Church | Albert Rust, III |
| Barbara Center | George Shultz |
| Anastasia Nakassis | Anita Bhatte |
| Ina Howell | S.P. Singh |
| Vitoled Kosmala | Vincent Camara |
| David Kerr | Subankar Dhar |
| Zhengyuan Guan | Xiaoping Liu |
| David Kaplan | Haicheng Tang |
| Yaechul Yoon | Jamal Hang |
| Philepe Pachano | Mohamed Elnaggar |
| Ming Dai | |

Chairperson: Gayan S. Dedigamua for Ph.D. degree in Applied Physics

GRADUATE INSTRUCTION:

1. Taught graduate-level courses in:

Real Analysis

Complex Analysis

Graph Theory

Number Theory

Hilbert Spaces

2. Was on committee to prepare and grade Qualifying Examinations for Ph.D. Candidates in:

Real Analysis

Complex Analysis

GRANTS:

1. Academy of Applied Sciences (2002), \$2,600.
2. Academy of Applied Sciences (2003), \$2,600.
3. Academy of Applied Sciences (2004), \$2,600.
4. Academy of Applied Sciences (2005), \$5,200.
5. Academy of Applied Sciences (2006), \$5,200.
6. Academy of Applied Sciences (2007), \$5,200.
7. Academy of Applied Sciences (2008), \$5,200.
8. Academy of Applied Sciences (2009), \$5,200.

PUBLICATIONS:

1. On High Indices Theorems, Proc. American Mathematical Society, Vol. 17, (1966), pp. 1001–1006.
2. Tauberian Theorems for Absolute Summability, Proc. American Mathematical Society, Vol. 18, (1967), pp. 775–781.
3. On Strong Riesz Summability Factors, Proc. American Mathematical Society, Vol. 18, (1967), pp. 959–966.
4. The Radius of Univalence of Certain Analytical Functions, Math. Z., Vol. 107, (1968), pp. 241–248.
5. A Relation Between Absolute Abel and Absolute Riesz Summability, Proc. American Mathematical Society, Vol. 21, (1969), pp. 57–63.
6. On the Zeros of a Polynomial and its Derivative, (with Goodman and Rahman), Proc. American Mathematical Society, Vol. 69, (1969), pp. 273–274.
7. Summability and Reflexivity, (with Waterman), Sudia Math., Vol. 32, (1969).
8. The Radius of Convexity of Certain Analytic Functions, Indian Journal of Pure and Applied Mathematics, Vol. 1, No. 1, (1970), pp. 30–36.
9. The Graphs of Semirings, (with Y.F. Lin), Journal of Algebra, Vol. 14, (1970), pp. 73–82.
10. The Diameters of the Graphs of Semirings, (with Y.F. Lin), Journal of Australian Math. Society, Vol. XI, (1970), pp. 433–440.
11. The Graphs of Semirings II, (with Y.F. Lin), Proc. American Mathematical Society, Vol. 30, No. 3, (1971), pp. 473–478.
12. Connectivity of Graphs of Semirings; Lifting and Product, (with Y.F. Lin), Proc. American Mathematical Society, Vol. 24, (1970), pp. 411–414.
13. On an Infinite Series of G -Functions. Studies and Essays Presented to Y.W. Chen on his Sixtieth Birthday, (1970), pp. 269–272.
14. **Finite Mathematics With Applications**, (with A.W. Goodman), MacMillan Company, 1971.
15. **Introductory Calculus With Applications**, (with M.N. Manougian), Houghton-Mifflin, 1973.
16. **Finite Mathematics With Applications, 2nd Ed.**, (with A.W. Goodman), MacMillan Company, 1975.

17. **Introductory Calculus With Applications, 2nd Edition** (with M.N. Manougian), Houghton-Mifflin, 1976.
18. **College Algebra**, MacMillan Company, 1977.
19. **College Algebra and Trigonometry**, MacMillan Company, 1978.
20. **Finite Mathematics With Applications, 3rd Edition** (with A.W. Goodman), MacMillan Company, 1979.
21. **Mathematics for Business** (with A.W. Goodman), Holt, Rinehart and Winston, 1979.
22. The Radius of Convexity of Certain Analytic Functions II, International Journal of Mathematics and Mathematical Sciences, Vol. 3, No. 3, (1980), pp. 483–489.
23. **Elementary Applied Calculus**, 1981, Mariner Publishing Company.
24. On a Functional Equation Involving Iterates of a Bijection on the Unit Interval (with A. Mukherjea), Nonlinear Analysis, Vol. 7, No. 8, (1983), pp. 899–908.
25. The Dirichlet Product of Summable Series. Indian Journal of Mathematics, Vol. 31, (1989), pp. 265–270.
26. On Anti-Commutative Semirings, International Journal of Mathematics and Mathematical Sciences, Vol. 12, No. 1, (1989), pp. 205–207.
27. On a Functional Equation Involving f and f^{-1} (with Y.F. Lin), Coll. Math., Vol. LX/LXI, (1990).
28. On the Radius of α -Convexity of Some Analytic Functions. Accepted for publication in the International Journal of Mathematics and Mathematical Sciences, (1995).
29. **The Calculus** (textbook): in progress.
30. **Real Analysis** (textbook): in progress.
31. Discrete Probability Measures on 2×2 Stochastic Matrices and a Functional Equation on $[0, 1]$ (with A. Mukherjea). Submitted to Journal of the Bernoulli Society, (1996).
32. A Functional Equation Involving Iterates of a Bijection on the Unit Interval, II (with A. Mukherjea), J. Nonlinear Analysis (1998), pp. 459–464.
33. Probability Measures on 2×2 Stochastic Matrices: Some Open Problems (with A. Mukherjea), Proceedings of World Congress of Nonlinear Analysts '96 (1997), pp. 4899–4902.
34. A Non-Linear Functional Equation Arising from Convolution Iterates of a Probability Measure (with S. Dhar and A. Mukherjea), J. Nonlinear Analysis 36 (1999), pp. 151–176.

35. Continuous Singularity of the Weak Limit of the Convolution Products of a Discrete Probability Measure on 2×2 Stochastic Matrices (with A. Mukherjea), *Journal of Theoretical Probability*, Vol. 10, No. 2, (1997), pp. 499–506.
36. On the Distribution of the Limit of Product of i.i.d. 2×2 Random Stochastic Matrices (with A. Nakassis and A. Mukherjea), *J. Theoretical Probability* 12 (1999), no. 2, 571–583.
37. Discrete Probability Measures on 2×2 Stochastic Matrices and a Functional Equation on $[0, 1]$ (with A. Mukherjea), *Probability and Math. Statistics* 20 (2000), no. 2, 359–372.
38. **College Algebra** (with M. McWaters), Pearson, 2008.
39. **College Algebra and Trigonometry** (with M. McWaters), Pearson, 2008.
40. **Precalculus** (with M. McWaters), Pearson, 2008.
41. **Precalculus: A Unit Circle Approach** (with M. McWaters), Pearson, 2010.
42. **Trigonometry** (with M. McWaters), Pearson, 2010.
43. **College Algebra**, 2nd Edition (with M. McWaters), Pearson, 2010.
44. **College Algebra and Trigonometry**, 2nd Edition (with M. McWaters), Pearson, 2010.
45. **Precalculus: A Right Triangle Approach**, 2nd Edition (with M. McWaters), Pearson, 2010.
46. **Precalculus: A Unit Circle Approach**, 2nd Edition (with M. McWaters), Pearson, 2013.
47. **Precalculus: A Right Triangle Approach**, 3rd Edition (with M. McWaters), Pearson, 2014.
48. **College Algebra**, 3rd Edition (with M. McWaters), Pearson, 2015.
49. **Precalculus: A Unit Circle Approach**, 3rd Edition (with M. McWaters), in preparation.

Revised: 11/17/09