

## 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:

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:

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  $\alpha$ -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  $2 \times 2$  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  $2 \times 2$  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  $2 \times 2$  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.  $2 \times 2$  Random Stochastic Matrices (with A. Nakassis and A. Mukherjea), *J. Theoretical Probability* 12 (1999), no. 2, 571–583.
37. Discrete Probability Measures on  $2 \times 2$  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.

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