ABBREVIATED C.V.

NAME: Taje I. RAMSAMUJH, DATE: August 1st, 2017.

CURRENT POSITION: Associate Professor with Tenure

AFFILIATION: Department of Math & Statistics, Florida International Univ.,

11200 SW 8th St, Miami, FL 33199, USA. 305-348‑2929, ramsamuj@fiu.edu

RESEARCH INTERESTS: Set Theory, Math Logic, Theory of Comput., & Analysis.

**EDUCATIONAL BACKGROUND & RELATED MATERIAL**

California Institute of Technology, 1350 California Blvd., Pasadena, CA 91125, USA.

Ph.D. (Foundations of Mathematics) ‑ June 1986

M.S. (Pure Mathematics) ‑ June 1984

Imperial College, Univ. of London, Queensgate Road, London SW7 2AZ, England, U.K.

A.R.C.S. (Assoc. of the Royal College of Science) ‑ June 1982

BSc. (Mathematics, first class honors) ‑ June 1982

GRE: Adv. Test in Math - 990/990, GRE Math: 740/800, GRE Verbal: 560/800. (1982)

SAT: Achievement Test (College Board): Math Level I: 800/800, Math Level II: 800/800,

Physics: 790/800, SAT Math: 780/800, SAT Verbal: 500/800. (all in 1979)

GCE A-level: Math (A), Furth. Math(A), Higher Math (A), Phys (B), Chem (B) - June 1978

GCE O-level: Math (A), Additional Math (A), Physics (A), Chemistry (A), Biology (A),

English Language (B), Technical Drawing (B) - all in June 1976.

AWARDS AND HONORS

National Merit Scholarship 1978

Imperial College Annual Math Scholarship 1980 & 1981

FIU Outstanding Research Performance Award 1990

FIU Teaching Incentive Program Award 1994

Georgian NSF Certificate of Appreciation 2012

**TEACHING EXPERIENCE & RELATED STUFF**

1. Associate professor, Florida International Univ., August 1991 ‑ present

2. Assistant professor, Florida International Univ., August 1986 ‑ July 1991

3. Saturday School Program, Caltech (Alg., Geom., & Calc.) October 1983 ‑ May 1986

4. GTA, Caltech (Math 1, Math 2, Discrete Math. & Logic) October 1982 ‑ June 1986

COURSES TAUGHT AT FLORIDA INTERNATIONAL UNIVERSITY

Graduate Real Analysis, Graduate Set Theory, Descriptive Set Theory, Axiomatic Set Theory,

Mathematical Logic, Graph Theory, Combinatorics, Theory of Algorithms, Introd to Analysis,

Advanced Calculus (Analysis I), Topics in Advanced Calculus (Analysis II), Introd to Advanced

Math, Linear Algebra, Discrete Math, Differential Equations; Calculus I, II, & III (Multi‑variable Calc.); History of Math, and several Independent Study Courses.

MASTERS PROJECTS COMMITTEE: Served on the Masters Comm. for about 8 students.

UNIVERSITY EXPOSITORY LECTURES: Delivered more than 7 such lectures.

**UNIVERSITY & OTHER SERVICE -** will not be mentioned

**MATHEMATICAL RESEARCH & RELATED STUFF**

CONFERENCE PRESENTATIONS **:** (more than 10)

UNIVERSITY SEMINAR TALKS**:** (more than 12)

LIST OF SELECTED PUBLICATIONS

1. A comparison of the Jordan and Dini tests, Real Analysis Exchange, Vol 12 no.2

(1987), 510‑515.

2. All positive integers are created equal, Mathematics Gazette, Vol 72 no. 414 (June 1988), p. 113.

3. The matrix direct product and algebraic numbers, Mathematics Gazette, Vol 73 no. 464

(June 1989), 116‑118.

4. The complexity of nowhere differentiable continuous functions, Canadian Journal of

Math., Vol. 41 no.1 (1989), 83‑105.

5. Three ordinal ranks for differentiable functions, Journal of Mathematical Analysis & its

Applications, Vol. 158 no.2, (1991), 539‑555.

6. The complexity of everywhere divergent Fourier series, Canadian Journal of Math., Vol.

43 no.2, (1991), 413‑424.

7. Nowhere analytic C functions, Journal of Mathematical Analysis & its Applications,

Vol. 160 no.1, (1991), 263‑266.

8. The family of compact porous sets, Proceedings of the 14th Annual Real Analysis

Summer Symposium (1992).

9. Nina Karlovna Bari: Her life and her mathematics, Biographical Encyclopedia of

Mathematicians, D. Franceshetti (ed.), Marshall Cavendish (1998), 39‑41.

10. Thoralf Skolem: His life and his mathematics, Biographical Encyclopedia of

Mathematicians, D. Franceshetti (ed.), Marshall Cavendish (1998), 470‑473.

11. Simply‑connected compact sets in the plane, Journal of Mathematical Analysis and

Applications, Vol. 237 (1999), 240‑252.

12. The levels and complexity of hypersets, Far East Journal of Mathematical Sciences,

Vol. 9 (2003), 327‑341.

13. Nullary relations, 0‑ary functions, and truth in empty domains, Far East Journal of

Mathematical Sciences, Vol. 30 (2008), 193‑203.

14. Ordinal ranks for hypersets, Far East Journal of Mathematical Sciences, Vol. 50

(2011), 183‑196.

15. The logic behind equational theories, Pioneer Journal of Mathematics & Mathematical Sciences, Vol. 10 Issue 2 (March 2014), 63‑79.

16. A reformulation of matrices engendered by nullary maps, to appear in Pioneer Journal of Mathematics & Mathematical Sciences (2017), 13pp.

WORK IN PREPARATION OR IN PROGRESS

1. Nonstandard analysis and Cauchy's convergence problems (in preparation).

2. A modification of the Lewis Octet rule & its applications (in preparation).

3. Nonstandard analysis and Abel's power series problems (in progress).

4. Minimal representations of Scott and Finsler pseudo‑sets (in progress).

5. Compact porous and bi-porous sets on the real line (in progress). End of CV.