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Department of Mathematics

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### ***Educational Background***

Ph. D. August, 1996, [Temple University](#), Philadelphia, PA Advisor Professor  
Marvin Knopp

M. Sc. July, 1987, Addis Ababa University Ethiopia

B. Sc. July, 1984, Addis Ababa University Ethiopia

### ***Professional Experience***

Graduate Assistant, 09/84-08/85, Addis Ababa University, Ethiopia

Lecturer, 09/85-07/91, Addis Ababa University Ethiopia

Teaching Assistant, 09/91-08/96, Temple University Philadelphia, PA

Instructor, 01/96-08/96, Rowan University Glassboro, NJ

Assistant Professor 09/96-9/01, Rowan University Glassboro, NJ

Associate Professor 09/01-present, Rowan University Glassboro, NJ

### ***Research and Publications***

#### **Publications**

- Maximum Principles for Some Second Order Non-Homogeneous Semilinear Equations." Bollettino U.M. I. (7) 5-A (1991), 245-252.(with G. Porru and A. Zeleke)
- Log-Polynomial Period Functions for Hecke Groups, The Ramanujan Journal,3, 119-151(1999)
- Log-Polynomial Period Functions for Nondiscrete Hecke Groups, The Proc. Amer. Math. Soc. **128** (2000), pp. 387- 396
- Finite Order Elements of Nondiscrete Hecke Groups (preprint)
- Playing on the Computer with Partition, Mathematuics and Computer Educatioun, Vol. 35, No. 1, Winter 2001, pp. 5 -17 (With T Osler)
- A Table of the Partition Function, The Mathmematical Spectrum, 34 (2001/2002), pp. 55 - 57. on the(With T Osler and TR Chandrupatla)
- The Unlikely Union of Partitions and Divisors, To appear in The College mathematics Journal (with T Osler and T. R. Chandrupatla)
- The Riemann Zeta Function and its Application in Number Theory (preprint)
- A Zero Free Region for Hypergeometric Zeta Functions (with Abdul Hassen), Preprint (2005).
- Hypergeometric Zeta Functions (with Abdul Hassen), Preprint (2005).

## **B. Manuals**

*Mathematica for Calculus I and II*( with A. Abay, G. Itzkowitz, and H. Nguyen)

*Mathematica for Calculus III* ( with A. Abay, G. Itzkowitz, and H. Nguyen)

*Mathematica for Linear Algebra* (with A. Abay)

## **C. Presentations at Professional Meetings and Institutions**

- Zero Free Regions for Hypergeometric Zeta Function". April 20, 2006, at Rowan University Math Colloquium.

- “Hypergeometric Zeta Functions” January 10, 2006, at the Number Theory Conference in Honor of Marvin Knopp’s 73<sup>rd</sup> Birthday, Temple University, Philadelphia, PA.
- “Functional Inequality for Hypergeometric Zeta.” March 23, 2005 at Number Theory Seminar Temple University.
- “Dimension and Number Theory” April 12, 2004, Math Awareness Month at Rowan University.
- “The Unlikely Union of the Partition and Divisor Function”. October, 19, 2003 at Math Colloquium of Rowan University.
- “Playing with Partition on the Computer” October, 19, 2002 at Math Colloquium of Rowan University.
- "*Multiplier Systems for Hecke Groups*" on January 20, 2000, at the Joint Mathematics Meetings held in Washington D.C.
- "*Automorphic Integrals and Hecke Groups*," on March 17, 1998, at the 943<sup>rd</sup> Central Sectional Meeting of the AMS held in Urbana, IL.
- "*Dirichlet Series with Functional Equation Associated with the Modular Group*" February 24, 1999 at the Mathematics Seminar of William Paterson University.
- "*2 by 2 Matrices of Finite Order*" March 21, 1999 at the Math-Physics Seminar of Rowan U.
- "*Log-Polynomial Period Functions of Positive Weight*," April 4, 1998, at the 933<sup>rd</sup> Northeastern Sectional Meeting of the AMS held in Philadelphia, PA
- "*Dirichlet series with pre-assigned poles associated with the non-discrete Hecke Groups*", April 8, 1997, at The Number Theory Seminar of the Mathematics Department, Temple U.
- "*Automorphic Integrals of Positive Weight for Hecke Groups*" December 18, 1997 at the West Coast Number Theory Conference held in Asilomar, CA.
- "*Dirichlet series with pre-assigned poles satisfying a functional equation.*" June 8, 1997, at a seminar at Bryn Mawr College, PA.
- "*The History of Fermat's Last Theorem and its Proof for Special Cases*", April 12, 1997 at the Mathematics-Physics seminar, Rowan University.

#### **D. Other Participation**

1. September 1991- Present. The Number Theory and Combinatorics Seminar of the Mathematics Department, Temple University.
2. January 1996 - Present. The Math-Physics Seminars of the Mathematics Department of Rowan University.
3. June 1993 - Present. The Summer Bryn Mawr Number Theory Seminar organized by Marvin Knopp of Temple University.
4. August 2 - 4, 1997. The summer MAA MATHFEST in Atlanta, GA
5. January 7 - 10, 1998 Joint Mathematics Meetings in Baltimore, MD
6. April 4 - 5, 1998 The 933<sup>rd</sup> Northeastern Sectional Meeting of the AMS

#### ***Professional Affiliations***

-Member of the Mathematical Association of America

-Member of the American Mathematical Society