Curriculum Vitae

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Elsayed Ahmed

University of Tampa
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Research Interests

Geometric group theory and number theory. Groups generated by automata. Polynomial dynamics on the ring of d-adic integers. Bireversible automata.

Education

08/2014 – 12/2018	*Ph.D. in Mathematics* University of South Florida Tampa, Florida, USA Advisor: Dr. D. Savchuk Title: Groups Generated by Automata Arising from Transformations of the Boundaries of Rooted Trees
08/2014 – 05/2016	*M.A. in Mathematics*, University of South Florida Tampa, Florida, USA
09/2013 – 08/2014	*PrePhD Diploma in Mathematics*, The International Centre for Theoretical Physics (ICTP) Trieste, Italy Advisor: Dr. F. Rodriguez Villegas Title: An Introduction to p-adic Numbers and the p-adic Gamma Function
09/2008 – 07/2012	*B.S. in Mathematics (Excellent with Honor, The Top Student)* Mansoura University Mansoura, Egypt

Work Experience

08/2020 – present	*Assistant Teaching Professor* University of Tampa, Tampa, FL
01/2019 – 05/2020	*Visiting Assistant Professor* Florida Polytechnic University, Lakeland, FL
08/2014 – 12/2018	*Teaching Assistant* University of South Florida, Tampa, FL
09/2012 – 08/2013	*Teaching Assistant* Mansoura University, Mansoura, Egypt

Publications

1. *The lamplighter group of rank two generated by a bireversible automaton* (with D. Savchuk), Communications in Algebra, V.47 (2019), Issue 8, 3340-3354
   http://arxiv.org/abs/1802.03695

2. *Endomorphisms of regular rooted trees induced by the action of polynomials on the ring $\mathbb{Z}_d$ of d-adic integers* (with D. Savchuk), Algebra and its Applications, 2019, published online at https://www.worldscientific.com/doi/10.1142/S0219498820501546,
   arXiv link http://arxiv.org/abs/1711.06735

Awards and Grants

1. Mathematics Operating Fund, Department of Mathematics and Statistics, University of South Florida, Spring 2018.

2. Tharp Endowed Award, College of Arts and Sciences, University of South Florida, Fall 2017.

3. Tharp Endowed Award, College of Arts and Sciences, University of South Florida, Spring 2017.

4. Tharp Endowed Award, College of Arts and Sciences, University of South Florida, Spring 2016.

Conferences and Workshops

1. Zassenhaus Groups and Friends Conference, University of South Florida, Tampa, Fl, April 2018 (local organizer).

2. Schupp Conference on Groups and Computations, Stevens Institute of Technology, Hoboken, NJ, June 2017.

3. Spring School in Analysis on groups and Measured Group Theory, Northwestern University, Evanston, IL, April 2017.

4. Salam Distinguished Lecture Series, the International Centre for Theoretical Physics (ICTP), Trieste, Italy, May 2014.

5. Algebra and Analysis Summer School, Cairo University, Cairo, Egypt, July 2009.

Teaching Experience

University of Tampa

Teaching the following courses:

MAT 155	*Finite Mathematics for Liberal Arts*
MAT 160	*College Algebra*
MAT 170	*Precalculus*
MAT 225	*Calculus for Business*

Florida Polytechnic University

Teaching the following courses:

MAC 1147	*Precalculus Algebra and Trigonometry*
MAC 2311	*Calculus I*
MAC 2312	*Calculus II*
MAC 2313	*Calculus III*
MAP 2302	*Differential Equations*
MAS 3114	*Computational Linear Algebra*

University of South Florida

Teaching the following courses:

MAC 1147	*Precalculus Algebra and Trigonometry*
MAC 2312	*Calculus II*

Help Sessions in the following courses:

MAC 2233	*Business Calculus*

Tutoring the following courses:

MAC 1105	*College Algebra*
MGF 1106	*Finite Mathematics*
MAC 1147	*Precalculus Algebra and Trigonometry*

Mansoura University

Recitation Sessions in the following courses:

Math 111	*Algebra and Geometry*
Math 112	*Differential and Integral Calculus*
Math 211	*Real Analysis*
Math 215	*Linear Algebra I*
Math 218	*Solid Analytic Geometry*
Math 412	*Graph Theory*
Math 414	*Functional Analysis*
Math 415	*Lie Algebras*
Math 418	*Lattice Theory*

Skills

Languages	Arabic (native) and English (fluent)
Computer	I have experience working in `GAP` and Maple and in publishing scientific documents with LaTeX