Roxana-Irina Popescu

Curriculum Vitae

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Positions

2018–present	**Teaching Assistant Professor**, *University of Pittsburgh, USA.*
2018-present	**Instructor at the Pitt EXCEL Summer Program**, *University of Pittsburgh, USA.*
2019-present	**Faculty Liaison for Calculus in High School Program Course Math 0220**, *University of Pittsburgh, USA.*
2012-2018	**Teaching Assistant**, *University of Pittsburgh, USA.*
2015-2017	**Instructor at the Math Olympiad Summer Program**, *Carnegie Mellon University, USA.*
2013	**Instructor at Awesome Math Summer Camp Program**, *The University of Texas at Dallas, USA.*

Education

2012–2018	**Ph.D in Mathematics**, *University of Pittsburgh, USA.* Ph.D Advisor: Prof. Christopher Lennard
2012-2018	**M.A. in Mathematics**, *University of Pittsburgh, USA.* Advisor: Prof. Christopher Lennard
2009–2012	**BSc in Mathematics**, *University of Bucharest, Romania.* Thesis Coordinator: Prof. Gheorghe Bucur

Research Interests

Functional Analysis, Fixed Point Theory, Real Analysis

Publications

- **Some properties in vector sequence spaces**, joint work with I. Ghenciu, in preparation
- **Quantitative bounds for unconditional pairs of frames**, joint work with P. Balazs, D. Freeman and M. Speckbacher, Journal of Mathematical Analysis and Applications Volume 531, issue 1, 2024
- **Observations on some classes of operators in** $C(K,X)$, joint work with I. Ghenciu, accepted, to appear in Analysis Mathematica 2023
- **A note on some classes of operators on** $C(K,X)$, joint work with I. Ghenciu, Quaestiones Mathematicae 46(9) 2023

- **A fixed point characterization of weakly compact sets in $L_1(\mu)$ spaces**, joint work with Maria Japon, Christopher Lennard J. Math. Anal. Appl. 491, no 1 (2020)
- **Weak* fixed point property in ℓ_1 and Polyhedrality in Lindenstrauss Spaces**, joint work with E. Casini, E. Miglierina and L. Piasecki, Studia Mathematica 241 (2) 2018
- **Stability constants of the weak* fixed point property in ℓ_1**, joint work with E. Casini, E. Miglierina and L. Piasecki J. Math. Anal. Appl., vol 452 (2017), no 1, 673-684
- **Weak compactness is not equivalent to the fixed point property in c**, joint work with Torrey Gallagher and Christopher Lennard, J. Math.Anal. Appl.,vol 431 (2015), no1, 471-481

Professional Experience

Teaching Assistant Professor at University of Pittsburgh 2018-present
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Instructor for the Pitt EXCEL Program 2018-present

Teaching Assistant at University of Pittsburgh 2012-2018

Instructor at Awesome Math Summer Camp program

Intructor at the Math Olympiad Summer Program *Training camp for US IMO team 2015, 2016, 2017*

Instructor at the Univ. of Pittsburgh Putnam Seminar *ranked 24th nationally in 2015*

Invited Instructor at the National Society of Black Engineers *review sessions 2014-2022*

Academic Achievements and Awards

- **Andrew Mellon Pre-Doctoral Research Fellowship** awarded by University of Pittsburgh, September 2017- May 2018
- **Elizabeth Baranger Pre-Doctoral Fellowship** awarded by University of Pittsburgh, September 2012- May 2013
- **Excellence Scholarship** awarded by the University of Bucharest, October 2011- June 2012
- **Second Prize National Research Contest for University Students Traian Lalescu** May 13-15 2011, Maritime University of Constanta, Constanta, awarded by the Traian Lalescu Foundation and Romanian Mathematical Society
- **Silver Medal South-Eastern Mathematical Olympiad for University Students** March 2011, Bucharest, Romania
- **Gold Medal at the National Mathematical Olympiad** April 2009, Bumbesti-Jiu, Romania

Conferences Attended

- **Fixed Points, Banach Space and Metric Space Theory Workshop**, Pittsburgh, USA, October 4, 2014

- **Fixed Points and Banach Spaces Seminar Series and Mini-Conference**, Pittsburgh, USA, April 13-18, 2015
- **Joint Mathematics Meetings**, Seattle, USA, January 6-9, 2016
- **Infinite Dimensional Analysis: Celebrating Richard Aron's Work and Impact**, Kent State University, USA, October 28-30, 2016
- **Recent Trends in Pure and Applied Mathematics**, Alba Iulia, Romania, July 31-August 4, 2017
- **Joint Mathematics Meetings**, San Diego, USA, January 10-13, 2018
- **Joint Mathematics Meetings**, Baltimore, USA, January 16-19, 2019
- **Joint Mathematics Meetings**, Boston, USA, January 4-7, 2023
- **The 10th Congress of Romanian Mathematicians**, Pitesti, Romania, June 30-July 5, 2023
- **The 14th International Conference of Fixed Point Theory and Its Applications**, Brasov, Romania, July 11-14, 2023

Talks

- **"Lipschitz Mappings and Hyperconvex spaces"** -Fixed Points, Banach Space and Metric Space Theory Workshop , Sat 4/October / 2014
- **"Asymptotically isometric copies of ℓ_∞ in Banach Spaces and a Theorem of Bessaga and Pelczynski"**- Fixed Points and Banach Spaces Mini-Conference, Univ of Pittsburgh, Sat 3/Oct/ 2015
- **" Weak compactness is not equivalent to the fixed point property in c"** Joint Mathematics Meetings, Seattle, January 6-9, 2016
- **"Stability constants of the weak* fixed point property for the space ℓ_1 "** poster, Infinite Dimensional Analysis Conference, Kent State University, October 28-30, 2016
- **" Weak compactness is not equivalent to the fixed point property in c"** -Joint Mathematics Meetings, San Diego, USA, January 10-13, 2018
- **"Minimizing a Function in n Variables"**, Research Poster Presentation in collaboration with Matthew Gerbstein, University of Pittsburgh April 8-13, 2018
- **"A variation on the Hilbert-Waring Problem"**, University of Pittsburgh Undergraduate Mathematics Seminar, October 9, 2018
- **" Grothendieck operators and weakly p-summable sequences"**-Joint Mathematics Meetings, Boston, USA, January 4-7, 2023

Courses Taught

Business Calculus

Calculus for Business 1, 2

College Algebra

Calculus I, II, III

Introduction to Theoretical Mathematics

Discrete Mathematical Structures

Number Theory, Algebra, Real Analysis *for the Putnam Seminar and the US IMO preparation team*

Progress in Math

Computer Skills

LaTeX, Excel, Word, Beamer

References

- **Angela Athanas**, University of Pittsburgh, athanas@math.pitt.edu
- **Ioana Ghenciu**, University of Wisconsin River Falls, ioana.ghenciu@uwrf.edu
- **Christopher Lennard**, University of Pittsburgh, lennard@pitt.edu
- **Po-Shen Loh**, University of Carnegie Mellon, ploh@cmu.edu
- **Yvette R. Moore**, University of Pittsburgh, excel@pitt.edu
- **Linhong Wang**, University of Pittsburgh, lhwang@pitt.edu