Postal Address:

Department of Mathematics William Paterson University 300 Pompton Road Wayne, NJ 07470 USA Tel: +1 (973) 720-3380 Fax: +1 (979) 720-2263 nacind@wpunj.edu http://www.wpunj.edu/cosh/ departments/math/faculty.dot

PROFESSIONAL EMPLOYMENT

2017–present	Professor, Mathema	atics Departme	ent, William	Paterson	Universi	ty (WPU),
	Wayne, NJ					
2012–2017	Associate Professor, (WPU), Wayne, NJ	Mathematics	Department,	William	Paterson	University
2005–2012	Assistant Professor, (WPU), Wayne, NJ	Mathematics	Department,	William	Paterson	University

EDUCATION

Rutgers, The State University of New Jersey New Brunswick, NJ

- Ph.D. Structural Properties of Algebras Arising From Pseudoroots, May 2005 Directed by Robert L. Wilson
- B.A. Mathematics, summa cum laude, (4.0 GPA) May 1997

RESEARCH INTERESTS

Non-commutative Algebra and Combinatorics, Experimental Mathematics, Recreational Mathematics

PUBLICATIONS

Articles

- D. Nacin, Kleinian KenKen, accepted for publication, The College Mathematics Journal
- T. Edgar and D. Nacin, A Visual Tour of Identities for the Padovan Sequence, Math Intelligencer (2021). https://doi.org/10.1007/s00283-021-10076-8
- D. Nacin, *Review: Games for Your Mind*, The American Mathematical Monthly, 128(5): 476-478, 2021
- D. Nacin, *Puzzles, Parity Maps, and Plenty of Solutions,* The Mathematics of Various Entertaining Subjects: Research in Recreational Math, Volume 3, 2019
- A. Caicedo, D. Nacin, and B. Shelton Introducing Tribus, Mathematics Magazine 92(1):18 2019
- D. Nacin, *A Minimal Non-Koszul* $A(\Gamma)$, Communications in Algebra, 46(3): 1243-1251, 2018
- D. Nacin, On a Complex KenKen Problem, The College Mathematics Journal, 48(4): 274, 2017
- D. Nacin, *Properties of a minimal non-Koszul* $A(\Gamma)$, Contemporary Mathematics, 592: 215-224, 2012.
- D. Nacin, Odd Sums, Mathematics Magazine, 82(1):64-65, 2009.

- D. Nacin, *Structural Properties of the Graph Algebra K*₃, J. Pure and Appl. Algebra, 212(3):541–549, 2008.
- D. Nacin, *An Introduction to Q_n and its Graph Related Quotients*, Contemporary Mathematics, 442: 171-178, 2007.
- D. Nacin, *The Algebra P_n is Koszul*, Comm. in Algebra, 35(4):1291-1306, 2007.

Mathematical Puzzles in Peer Reviewed Journals

- D. Nacin, Knightdoku, Math Horizons, to appear April 2021
- D. Nacin, Tribus, MAA Focus, 40(6):12 2020
- D. Nacin, Mean Latin Square, MAA Focus, 40(4):36 2020
- D. Nacin, Permutahedron Sum, Math Horizons 27(4):2, 2020
- D. Nacin, Bishops and Kings, MAA Focus, 40(3):27 2020
- D. Nacin, Puzzle Page Parity Sudoku, The New Jersey Mathematics Teacher, 78(1):71 2020
- D. Nacin, Focus on Diamonds, MAA Focus, 40(1):39 2020
- D. Nacin, Tribus Puzzle, Mathematics Magazine, 92(5):338 2019
- D. Nacin, King's Sudoku, MAA Focus, 39(6):30 2019
- D. Nacin, Tribus Puzzle, Mathematics Magazine, 92(4):271 2019
- D. Nacin, MAA Focus on Sudoku, MAA Focus, 39(5):45 2019
- D. Nacin, Tribus Puzzle, Mathematics Magazine, 92(3):238 2019
- D. Nacin, Tribus Puzzle, Mathematics Magazine, 92(2):90 2019
- D. Nacin, Permanent Sudoku, MAA Focus, 39(3):45 2019
- D. Nacin, Square or Prime Differencedoku, Math Horizons, 26(4):2 2019
- D. Nacin, Knights and Kings, MAA Focus, 39(1):48 2019
- D. Nacin, Introducing Tribus, Mathematics Magazine, 92(1):18 2019
- D. Nacin, Bishop's Sudoku, MAA Focus, 38(6):36 2018
- D. Nacin, Determinant Sudoku, MAA Focus, 38(5):32 2018
- D. Nacin, *Knightdoku Puzzle 1-4*, The College Mathematics Journal, 49(4): 250,261,269,277,287, 2018.
- D. Nacin, Knights and Bishops, MAA Focus, 38(4):32 2018
- D. Nacin, Prime Sum and Difference Sudoku, Math Horizons, 25(4): 2, 2018
- D. Nacin, Divisibilitydoku, MAA Focus, 37(5):25,26 2017
- D. Nacin, Dihedroku, The College Mathematics Journal, 48(4): 248,258,264,283, 2017.
- D. Nacin, Quotientdoku and Remainderdoku, Math Horizons, 25(1):2,2017
- D. Nacin, Meandoku, MAA Focus, 37(2):20 2017
- D. Nacin, MAA 101th Anniversary CMJ Puzzles, The College Mathematics Journal, 47(4): 249,254,264,274, 2016.
- D. Nacin, MAA 100th Anniversary CMJ Puzzles, The College Mathematics Journal, 46(4): 254,263,274,294, 2015.
- D. Nacin, Permudoku Puzzle, The College Mathematics Journal, 45(4):307, 2014.
- D. Nacin, Liedoku, MAA Focus, 33(5):29, 2013.

Sequences

 D. Nacin, A204089 – A204092, A206947 – A206950, A206901, A206902, A208528, A208529, A208736 – A208743, A208900 – A208903, A209398 – A209400, A209408 – A209410, A209434 – A209439, A209490 – A209491, A282612-A282614, A282670, A282816-A282820, A283026-A283033, A287392 – A287394, A287804-A287819, A287825-A287839, A321341, A321664, A324660-A324668, A324671-A324692, A328943, A329178, A329227, A329244, A327035 (130 Total), The Online Encyclopedia of Integer Sequences

Books

D. Nacin, Math Infused Sudoku, American Mathematical Society, ISBN: 978-1-4704-5090-8

In Preparation

- D. Nacin, van der Laan Sequences
- D. Nacin, Padovan Proofs in Pascal's Triangle
- D. Nacin, MacMahon Triangles with Checkerboard Restrictions

Media Interviews

- William Paterson University Math Professor Publishes Book of Puzzles, reporter Steve Sears, Hometown News Zone 12, 12/01/2019
- *N.J. college prof made his own version of Sudoku and this one's for math lovers,* reporter Rob Jennings, NJ.com, 11/16/2019
- 'Making Math Fun:' Professor David Nacin Publishes Book of Math-Infused Puzzles, reporter Maria Daniels, WP News, 10/18/2019
- In this Version of Sudoku, Professor David Nacin Makes the Numbers Matter, reporter Olivia Biel, The Beacon, 10/15/2019

GRANTS, HONORS & AWARDS

Christie Lecturer - Northeast MAA Section Meeting, Fall 2021 Taylor & Francis Most Read Collection from the MAA for Introducing Tribus – 2019 William Paterson University - Sabbatical Award, Fall 2018 - Spring 2019 Blunden Lecturer - The Atlantic Universities Mathematics, Statistics and Computer Science conference, Fall 2015 Park City Math Institute - Full Financial Support Awarded: Undergraduate Faculty Program in Moduli Spaces, Summer 2015 Park City Math Institute – Full Financial Support Awarded: Undergraduate Faculty Program in Materials Science, Summer 2014 William Paterson University - Sabbatical Award, Fall 2011 - Spring 2012 William Paterson University - ART Award, 2006, 2007, 2008, 2010, 2012 and 2014 William Paterson University - CfR Fellowship, 2006, 2007, 2008 and 2009 MAA – NJ NExT Fellow, 2007–2008 MAA - Project NExT Fellow, 2005-2006 Rutgers University - Louis Bevier Dissertation Fellowship, 2004-2005 DIMACS - Graduate Support Award, Summers 2003 & 2004 Rutgers University - Teaching Excellence Award, 2000 Rutgers University – Minority Advancement Program Fellowship 1997-1999 Rutgers University – Minorities in Computer Science Excellence Award 1996

TEACHING

University Courses

William Paterson University Undergraduate Courses, History of Mathematics, Survey of Mathematics, Topology, Logic and Methods of Higher Mathematics, Advanced Calculus, Modern Algebra, Calculus I, Calculus II, College Algebra, Precalculus, Algebra, Trigonometry and Functions, Quantitative Methods I, Real Analysis, Advanced Discrete, Linear Algebra, Applied Algebra, Number Theory, 2005–present William Paterson University Graduate Courses, Topics in Linear Algebra, Discrete Mathematics, Cryptography and Number Theory, Graph Theory, Experimental Mathematics, 2020–present Rutgers University, Introduction to Linear Algebra, Theory of Numbers, Combinatorial Theory, Theory of Probability, Introduction to Cryptography, Calculus I, Summer 1997–2005

Capstones

An Incorrect Proof of the Four Color Theorem, Odete Ramalho Mathematics and Football, Brian Russo Rootless Matrices, Jeff Dwuyhaver Smith Numbers, Valerie Ardrens Mathematical Magic, David Weber Counting Train Track Layouts, Beth Jacobs An Analogue of the 3x + 1 Problem, Danielle Hughes Solving the Hilbert Series for the Path on n nodes, Joseph Greco Braid Group Cryptography, David Guerra The Probability of Relatively Prime Polynomials, Cynthia Flim Groups That Sit Properly Inside Themselves, Danielle Gasparro Wazir Circuits on an Obstructed Chessboard, Natasha Davis Tropical Mathematics, Jeff Fiscina Jump Home and Shift: A Permutation Operation, Nicole Burchell Matroid Theory, Daniel Thomas Polynomials Have Prime-Rich Images, Samantha Parnes Combinatorial Games, Lauren Sanchez The RSA Algorithm, Michael Cemelli Heartless Poker, Todd Vasy Solitaire Mancala, Michelle Miller Group Theory and the Rubix Cube, Kevin Bullen Introduction to Algebraic Coding Theory, Michelle Ginart So You Think You Know Algebra, Joseph DeGaetani The Subprime Fibonacci Sequence, Vanessa Schiro Fair Tournament Games, Christopher Icochea Cyclotomic Coefficients, Kwang-Ho Lee Polygon Preserving Group Actions, Sean Connolly Busses Bullies and Biejctions, Hubert Jorahua

Group Actions on KenKen Solution Sets, Summer Pirro The Sleeping Beauty Paradox, Bernard Cerat Error Correcting Codes and Permutations, Jenna Novak Globalization of Up-Down Permutation Using Disjoint Adjacent Switches, Luis Nunez A Probabilistic Proof of a Lemma that is not Burnside's, Ethan Christopher Machine Learning Project - Title TBA, Anna Sand Constructions of the Quaternion Group, Sina Zakaria Group Actions and KenKen Puzzles, Amina Zriek

Reading Courses

A Declarative Approach to Python, Jafeth Meza Functional Programming in Python, Kwasi Asare Bediako Number Theory, David Guerra and Philip Nelson Advanced Cryptography, David Guerra Mathematics of Music, Jennetta George Topics in Algebra, Susan Wendling Advanced Analysis of Transcendental Functions and Integral Calculus with Applications, Ysaac Mendoza Braid Groups and Cryptography, Joseph DiGaetanti and Cherilyn Ann Connor

Courses Developed

Math 2200 Python for Exploration, Undergraduate Math 3110 Number Theory, Undergraduate Math 5100 Mathematical Analysis, Graduate Math 5200 Topics in Linear Algebra, Graduate Math 5300 Probability Theory, Graduate Math 5400 Applied Discrete, Graduate Math 5600 Applied Algebra, Graduate Math 5820 Experimental Mathematics, Graduate

SERVICE

Professional

Organizer and Presider – Recreational Mathematics Session, Fall 2020 MAA-NJ Fall Meeting, Fall 2020

Organizer and Presider – Recreational Mathematics Session, Fall 2019 MAA Joint NJ and Metro NY Meeting, Essex Community College, Newark, Fall 2019

Organizer and Presider – Recreational Mathematics Session, Spring 2019 MAA-NJ/MATYCNJ Joint Meeting, Raritan Valley Community College, Branchburg, Spring 2019

Textbook Reviewer, Elementary Number Theory and Its Applications, Pearson, 3/18/2019 *Organizer and Presider – Recreational Mathematics Session,* MAA-NJ Conference, Rowan Burlington Mt. Laurel Campus, Spring 2018

Reviewer, Cambridge University Press, 2017 - present

Organizer and Presider – Recreational Mathematics Session, MAA-NJ Conference, The College of New Jersey, Spring 2017 Organizer and Presider – Recreational Mathematics Session, MAA-NJ Conference, William Paterson University, Spring 2016 Assistant Editor, "Online Encyclopedia of Integer Sequences", 12/29/2013 - present Member, Ph.D. Defense Committee, Rutgers University, Susan Durst, Spring 2013 Consultant, NJ-NExT, Spring 2011 – present Assistant Technical Editor, "Calculus II for Dummies" by Mark Zegarelli, Spring 2008 Co-organizer, MAA-NJ Spring Meeting, April 2008 Judge, Undergraduate Poster Session, Joint Mathematics Meetings, New Orleans, January 2007 Referee, Mathematics Magazine, 2006 – present

Departmental

Advisor, Python Club, WPU, Fall 2021 – present Member, Graduate Program Director, WPU, Spring 2020 - present Member, Graduate Program Committee, WPU, Fall 2014 - present Member, Tenure and Retention Committee, WPU, Fall 2020 - present Member, Math Department Council, WPU, Fall 2010 – Spring 2011, Fall 2012 – Spring 2016, Fall 2017 - Spring 2018, Fall 2019 - present Department Representative, AFT Local 1796, WPU, Fall 2012 - present Advisor, Math Club and Activities, WPU, Fall 2008 – present Coach, WPUNJ Problem Solving Group, Spring 2007 – present Library Liason, WPU, Fall 2007 - present AMS, MAA, & SIAM Representative, WPU, Fall 2007 – Summer 2010, Fall 2012 – present Member, Retention and Tenure Committee, WPU, Fall 2010 - Spring 2011 Faculty Advisor, Garden State Undergraduate Mathematics Competition, March 2007, March 2008, March 2009, March 2010 and March 2011 Coordinator, Math Fair, WPU, Fall 2006 - Fall 2009 Member, Curriculum Committee, WPU, Fall 2006 - Spring 2007 Coordinator, Math Awareness Week, WPU, Fall 2005 - Spring 2008 Seminar Coordinator, WPU, Fall 2005 - Summer 2006 & Fall 2010 - Spring 2011 Recording Secretary, WPU, Fall 2005 – Summer 2006

College and University

Member, Learning Spaces Committee, Fall 2010 – Spring 2011, Fall 2012 – Spring 2016 Advisor, EGG Club, Fall 2008 – Spring 2010 Member, Student Retention Subcommittee, Spring 2009 – Spring 2010 Member, MAST Project Search Committee, Spring 2009

PRESENTATIONS

Conferences

Padovan, Pascal, and Proofs Without Words, Christie Lecture, Fall 2021 MAA Northeast Section Meeting, (Virtual) (11/20/2021)

Open Problems from the OEIS Fall 2020 MAA New Jersey Meeting, (10/24/2020) *The Plastic Ratio, the Monestary at Vaals, and van der Laan sequences* Fall 2019 MAA Joint Meeting

of the New Jersey and Metro New York Sections, Newark, (10/26/2019)
Padovan, Pascal, and Proofs Without Words, MOVES Conference, Manhattan, (10/6/2019)
Padovan, Pascal, and Proofs Without Words, Mathfest 2018, Cincinatti, (10/4/2019)
Padovan, Pascal, and Proofs Without Words, Spring 2019 MAA-NJ/MATYCNJ Joint Meeting, Rar- itan Valley Community College, Branchburg, (4/13/2019)
A Spectrum of Solutions for a Set of Cyclic Groupdoku, Mathfest 2018, Denver, (8/03/2018)
Kleinian KenKen, Gathering for Gardner: G4G13, Atlanta, (4/11/2018)
Puzzles and Graphs, MAA-NJ Section Meeting, Rowan Burlington, Mt. Laurel Campus, (4/7/2018)
Finite Group KenKen, MOVES Conference, Manhattan, (8/8/2017)
Finite Group KenKen, Mathfest 2017, Chicago, (7/27/2017)
KenKen Puzzles Over Small Groups, MAA-NJ Section Meeting, The College of New Jersey, (3/26/2017)
A New Type of Partition Puzzle, MAA-NJ Section Meeting, William Paterson, 4/2016
Recent Uniqueness Results for Complex Valued KenKen, MAA-NJ Section Meeting, Kean University, 11/2015
James Joseph Sylvester: On the 150th Anniversary of his Three Point Problem, The Atlantic Universi- ties Mathematics, Statistics and Computer Science conference, Wolfsville, Canada, 10/2015
Liedoku for Abstract Algebra, Mathfest 2014, Portland, 8/2014
On a KenKen from Bitplayer, Gathering for Gardner: G4G11, Atlanta, 3/2014
A Complex Calcudoku Classification, Mathfest 2013, Hartford, 8/2013
On a complex valued Sudoku, MOVES Conference, Manhattan, 8/2013
Bit-Player Calcudoku, Joint Mathematics Meetings, San Diego, 1/2013
Unique KenKen Over the Complex Numbers, Mathfest 2012, Madison, 8/2012
A Minimal Non-koszul $A(\Gamma)$, Special Session in Noncommutative Birational Geometry, Representations and Cluster Algebras, Joint Mathematics Meetings, Boston, Upcoming, 1/2012
Assessment Methods for Teaching the History of Mathematics Online, Mathfest 2011, Lexington, 8/2011
Peer Feedback and Other Forms of Assessment in On-line Courses: What Worked, What Didn't, MAA-NJ Section Meeting, Essex County College, 04/2011
Noncommutative Algebras Associated to Polynomials over Skew Fields, Joint Mathematics Meetings, San Diego, 01/2008
Noncommutative Vieta's Theorem and Graph Associated Algebras, Joint Mathematics Meetings, New Orleans, 01/2007
Graphs and Algebras, MAA-NJ Section Meeting, Georgian Court University, 04/2006
<i>Partially Commuting Algebras and Their Connections to</i> Q_n , Lie Algebras, Vertex Operator Algebras, and Their Applications, North Carolina State University, 05/2005
Properties of Graph Associated Algebras, Joint Mathematics Meetings, Atlanta, 1/2005
Seminars

Padovan, Pascal, and Proofs Without Words, ANT-CoG Seminar, UNC Greensboro, (3/19/2021)

- Padovan, Pascal, and Proofs Without Words, Experimental Mathematics Seminar, Rutgers University, (3/4/2021)
- *Padovan, Pascal, and Proofs Without Words* Occidental College Mathematics Seminar, Los Angeles CA, (10/22/2020)

The Power of Padovan Hofstra Mathematics Seminar, Hempstead NY, 9/18/2020

The Power of Padovan Numbers Math Department Seminar, WPU, (11/06/2019)

- A Spectrum of Solutions, Math Department Seminar, WPU, (3/26/2018)
- A Complex KenKen Classification, Experimental Mathematics Seminar, Rutgers University, (12/8/2016)

KenKen Puzzles over Finite Abelian Groups, Math Department Seminar, WPU, (11/23/2016)

- James Joseph Sylvester on the 150th Anniversary of his Four Point Problem, Math Department Seminar, WPU, 11/2015
- Layered Graph Algorithms for Computational Non-commutative Algebra, Noncommutative Algebra Seminar, Rutgers University, 12/2011
- *Minimal Examples of Non-Koszul* $A(\Gamma)$, Experimental Mathematics Seminar, Rutgers University, 12/2011
- A Minimal Non-koszul Example from a Class of Poset Algebras, Noncommutative Algebra Seminar, Rutgers University, 9/2011
- The Mathematics of Lewis Carol, Math Department Seminar, WPU, 3/2010
- A Distributive Lattice arising from the Exterior Algebra, Noncommutative Algebra Seminar, Rutgers University, 10/2006
- Some Koszul Algebras Arising from Graphs, Math Department Seminar, WPU, 03/2006
- A Lattice Based Proof that Exterior Algebras are Koszul, Noncommutative Algebra Seminar, Rutgers University, 2/2005
- *The Algebra S_n* Noncommutative Algebra Seminar, Rutgers University, 4/2004

Some Examples of Koszul Algebras, Noncommutative Algebra Seminar, Rutgers University, 03/2004

- The Virasoro Algebra, Graduate Student Algebra Seminar, Rutgers University, 03/2000
- The Derivation Tower Problem, Everything We Know About Algebras When We Assume Nothing,
- *The Automorphism Tower Problem, How I Learned to Stop Worrying and Love End(V),* Graduate Student Pizza Seminars, Rutgers University, 98-05

Outreach

Padovan, Pascal, and Proofs Without Words, Math Club Presentation, UNC Greensboro, (3/19/2021)
Padovan, Pascal, and Proofs Without Words, Math Club Presentation, William Paterson University, (3/3/2021)
MAA Fall Meeting Puzzle Competition, Fall 2020 MAA-NJ Meeting, 10/24/2020
Exploding Dots!, Math Club Presentation, WPU, (10/13/2020)
Joint MAA/AMS Puzzle Competition, Fall 2019 MAA-NJ/Metro NY Joint Meeting, Essex Community College, Newark, (10/26/2019)
A Visual Introduction to the Padovan Numbers, Math Club Presentation, WPU, (10/18/2019)
Skype Interview with Boston University Mathematics Class, Online, (10/18/2019)
The Mathematics of Paper Puzzles: Sudoku, KenKen, Kakuro, Maysu and More, Spring 2019 MAA-NJ/MATYCNJ Joint Meeting, Raritan Valley Community College, Branchburg, (4/13/2019)
Jacobsthal Numbers, Math Circle, Manhattanville College, (3/20/2019)

The 150th Anniversary of Hadamard Matrices, Math Awareness Week, WPU, (4/26/2017)

Puzzles Over Groups of Small Order, Explorations 2017, WPU, (4/5/2017)

Online Resources for Math Majors, Math Major's Day, WPU, (3/30/2017)

Weighing in on Gauss, Math Club Presentation, WPU, (2/27/2017) Fast Cube Root Computations, Math Club Presentation, WPU, (11/29/2016) Four Point Problems, Math Fair, WPU, 11/15 That Magic Square and a Number of Others, Math Awareness Week, WPU, 4/14 Triangular Numbers, Math Fair, WPU, 11/13 Steady States in a Division Game, Math Club Presentation, WPU, 10/13 Sumdoku and Number Puzzles, Math Fair, WPU, 11/12 The Mechanics of Grid Motion, Math Club Presentation, WPU, 11/10 Fermat Numbers, Factorizations, and Theorems, Math Fair, WPU, 11/10 The Josephus Problem, Math Club Presentation, WPU, 10/10 Algorithms for Sharing Candy, Math Club Presentation, WPU, 9/10 Polygonal Numbers Minicourse, Admitted Student Day, WPU, 05/09 Triangular Numbers, Math Fair, WPU, 11/08 Perfect Numbers Minicourse, Admitted Student Day, WPU, 04/08 Perfect Numbers in Ancient Greece, Math Fair, WPU, 11/07 The Life and Work of Paul Erdos, Math Club Presentation, WPU, 10/07 Fermat's Fabulous Factorable Figures, Math Fair, WPU, 11/06 The Subset-Sum Problem (and how to use it to transmit information), Math Awareness Month, WPU, 4/06

Panels

What I Wish I Knew Before My First Year of Teaching, NJ-NExT Meeting, Essex County College, Newark NJ, 4/11

Future Math and Science Teachers Spring Information Event, WPU, 4/09, 4/10, 4/11 *Future Math and Science Teachers Fall Information Event,* WPU, 10/09, 10/10

TECHNOLOGY

Software

- D. Nacin, GrouPy: A Python Package for the Construction and Classification of KenKen over Finite Groups and Other Structures with Binary Operations.
- D. Nacin, BOS: A Python Package for the Construction and Study of Sudoku Puzzles with Clues from Binary Operations of Adjacent Cells.
- D. Nacin, DIPT: A Python Package for the Mathematical Analysis of Domination, Independence, and Tour Problems in Chess, and the Creation and Study of Chess Puzzles.
- D. Nacin, PyTri: A Python Package for Constructing Latin Square Puzzles.
- D. Nacin, *HiLGA: Hilbert Series of Layered Graph Algebras,* for experimentation with cohomology of certain graph algebras
- D. Nacin, DIM: A Python Program Using Fractal Methods to test for Determinism in Music
- D. Nacin, J. Yeung, PyG: A Graph Theory Package for Python

Computer Skills

Expert User, Python, Sage, Racket, Blackboard, LaTeX, Tegrity, Dia, YeD, C++, Mathematica

PROFESSIONAL SOCIETIES

REC-SIGMAA Special Interest Group on Recreational Mathematics, 2018 – present ARTS-SIGMAA Special Interest Group on Mathematics and the Arts, 2007 – present RUME-SIGMAA Special Interest Group on Research in Undergraduate Education, 2007 – present HoM-SIGMAA Special Interest Group on the History of Mathematics, 2007 – present Pi Mu Epsilon National Honor Society, 2006 – present Mathematical Association of America, 1998 – present Latino Alumni Association of Rutgers University, 2005 – present American Mathematical Society, 1997 – present