

# Stanley R. Huddy

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## EMPLOYMENT HISTORY

2020 – present	<b>Associate Professor of Mathematics</b> , Fairleigh Dickinson University, Teaneck, NJ
2015 – 2020	Assistant Professor of Mathematics, Fairleigh Dickinson University, Teaneck, NJ
2013 – 2015	Lecturer of Mathematics, State University of New York at New Paltz, New Paltz, NY
2009 – 2013	Graduate Teaching Fellow, Department of Mathematics, Clarkson University, Potsdam, NY
2008 – 2009	Adjunct Professor, Sussex County Community College, Newton, NJ
2008 – 2009	Teacher of Mathematics, Passaic Valley High School, Little Falls, NJ
2005 – 2008	NSF GK-12 Teaching Fellow, Clarkson University, Potsdam, NY

## EDUCATION

Ph.D.	Mathematics Clarkson University, Potsdam, NY (2013) Dissertation: The Effects of Coupling Delay on the Dynamics and Synchronization of Small Oscillator Networks Committee: Joseph D. Skufca, Erik Bollt, Jie Sun, Daniel ben-Avraham, Brian Helenbrook
M.S.	Mathematics Clarkson University, Potsdam, NY (2008)
B.S.	Mathematics ( <i>cum laude</i> , Member: Pi Mu Epsilon) Montclair State University, Upper Montclair, NJ (2005)
A.A.	Liberal Arts (Member: Phi Theta Kappa) Sussex County Community College, Newton NJ (2003)

## CERTIFICATIONS

Standard Certificate	Teacher of Mathematics Department of Education State Board Examiners, The State of New Jersey (2009)
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## AWARDS

- The George Pólya Award for articles of expository excellence published in The College Mathematics Journal. Awarded by the Mathematical Association of America for *The Calculus Behind Generic Drug Equivalence*. MathFest, Cincinnati, OH (July 2019)
- Student Travel Award  
Awarded by SIAM to attend the SIAM Conference on Applications of Dynamical Systems  
Snowbird, UT (May 2013)

## RESEARCH

### Publications (\* = student author)

15. *The Super Bowl Squares Pool*  
Stanley R. Huddy & Michael A. Jones  
The College Mathematics Journal, (Submitted May 2024)
14. *The milk and Monge shuffles and three self-working card tricks*  
Stanley R. Huddy  
The Mathematical Gazette, (Accepted May 2024)

13. *Enumeration of the Positive Rational Numbers Using The Calkin-Wilf Tree with Application to the Game Euclid*  
Stanley R. Huddy & Brittany C. Ohlinger  
Teaching Mathematics Through Cross-Curricular Projects, Classroom Resource Materials Book Series  
Edited by E.A. Donovan, L.A. Hoots, and L.W. Wigglesworth, American Mathematical Society (2024)
12. *Using critical curves to compute master stability islands for amplitude death in networks of delay-coupled oscillators*  
Stanley R. Huddy  
Chaos, 30, 013118 (2020)
11. *You Only Need a Bit of Luck to Win MTV's Are You the One?*  
Stanley R. Huddy and Nomin Sukhbaatar\*  
The UMAP Journal, 40.1 Spring Edition, p. 5-20 (2019)
10. *Math Bite: Hobbits and a Birthday-type Problem*  
Stanley R. Huddy  
Mathematics Magazine, Vol. 92, Num. 3, p. 200-200 (2019)
9. *Quotients of Hypotenuses of Pythagorean Triples  $(a, b, b + 1)$  and Finite Differences*  
Stanley R. Huddy and Michael A. Jones  
The Mathematical Gazette, Vol. 103, p. 132-135 (2019)
8. *All Parabolas Through Three Non-collinear Points*  
Stanley R. Huddy and Michael A. Jones  
The Mathematical Gazette, Vol. 102, No. 554, p. 203-209 (2018)
7. *The Calculus Behind Generic Drug Equivalence*  
Stanley R. Huddy and Michael A. Jones  
The College Mathematics Journal, Vol. 49, No. 1, p. 2-9 (2018)
6. *Real Mathematics Fact*  
Stanley R. Huddy  
Mathematics Magazine, Vol. 90, Num. 3 (2017)
5. *Master Stability Islands for Amplitude Death in Networks of Delay-Coupled Oscillators*  
Stanley R. Huddy and Jie Sun  
Physical Review E, Vol. 93, p. 052209 (2016)
4. *Proof without Words: Sums of Consecutive Odds and Positive Integer Cubes*  
Stanley R. Huddy  
Mathematics Magazine, Vol. 89, Num. 3, p. 196-196 (2016)
3. *A Geometric Perspective on Counting Nonnegative Integer Solutions and Combinatorial Identities*  
Matthew J. Haines, Stanley R. Huddy, and Michael A. Jones  
International Journal of Mathematical Education in Science and Technology, Vol. 46, p. 598-611 (2015)
2. *Amplitude Death Solutions for Stabilization of DC Microgrids with Instantaneous Constant-Power Loads*  
Stanley R. Huddy and Joseph D. Skufca  
IEEE Transactions on Power Electronics, Vol. 28, p. 247-253 (2013)
1. *Redundancy in Nimber Sequences for Three-Element Subtraction Sets*  
Stanley R. Huddy, Michael A. Jones, and Brittany C. Shelton  
Pi Mu Epsilon Journal, Vol. 12, No. 7, p. 393-403 (2007)

## Presentations

*The Milk and Monge Shuffles and Three Self-Working Card Tricks*

- MathFest, Indianapolis, IN (August 2024)
- Mathematics Department Colloquium, Albion College, Albion, MI (February 2024)

*Using critical curves to compute master stability islands for amplitude death in networks of delay-coupled oscillators*

- SIAM Conference on Applications of Dynamical Systems. Snowbird, UT (May 2019)

*You Only Need a Bit of Luck to Win MTV's Are You the One?*

- Recreational Mathematics Session Part B, MathFest, Cincinnati, OH (August 2019)
- Mathematics Seminar, William Patterson University, Wayne, NJ (October 2018)

*Properties of Master Stability Islands for Amplitude Death in Networks of Delay-Coupled Oscillators*

- 14th IFAC Workshop on Time Delay Systems, Budapest, Hungary (June 2018)

*All Parabolas Through Three Non-collinear Points*

- Northeastern Section of the MAA Spring 2017 Meeting, Northfield, VT (June 2017)

*Master Stability Islands for Amplitude Death in Networks of Delay-Coupled Oscillators*

- SIAM Conference on Applications of Dynamical Systems. Snowbird, UT (May 2017)
- Joint Mathematics Meetings, Seattle, WA (January 2016)

#### *Coupled Nonlinear Systems with Applications to DC Microgrids*

- GHCSE Seminar Series, Fairleigh Dickinson University, Teaneck, NJ (November 2016)
- Electrical and Computer Engineering Seminar, Union College, Schenectady, NY (February 2015)

#### *The Effects of Coupling Delay on the Dynamics and Synchronization of Coupled Nonlinear Systems*

- Arts and Sciences Seminar Series, Clarkson University, Potsdam, NY (November 2015)

#### *An Introduction to Chaos Theory*

- Mathematical Science Seminar, Montclair State University, Upper Montclair, NJ (October 2015)

#### *Master Stability Functions for Synchronized Identical Systems with Linear-Delay Coupling*

- MathFest, Washington, DC (August 2015)

#### *Butterflies and Chaos*

- Mathematics Department Colloquium, Albright College, Reading, PA (April 2015)
- Mathematics Department Colloquium, SUNY New Paltz, New Paltz, NY (February 2014)

#### *Complete Synchronization on Networks of Identical Oscillators with Diffusive Delay-Coupling*

- MathFest, Portland, OR (August 2014)
- MAA Metro NY Sectional Meeting, Garden City, NY (May 2014)

#### *Chaos, Synchronization, and Delay*

- MAA Seaway Sectional Meeting, Potsdam, NY (October 2013)
- Mathematics Department Colloquium, Albion College, Albion, MI (April 2013)

#### *Amplitude Death Solutions for Stabilization of DC Microgrids with Instantaneous Constant-Power Loads*

- SIAM Conference on Applications of Dynamical Systems, Snowbird, UT (May 2013)
- Joint Mathematics Meetings, San Diego, CA (January 2013)

#### *Teaching STEM Concepts Using Khan Academy, MATHCOUNTS, and Roller Coasters*

- CSTEM Academy Workshop, Clarkson University, Potsdam, NY (August 2012)

#### *Stabilizing Electronic Circuits via Coupling*

- 2nd Annual New York State Applied Mathematics Conference, Buffalo, NY (April 2011)

#### *Redundancy for NIM Under $S = \{a, b, c\}$*

- Annual Sigma Xi Student Research Conference, Upper Montclair, NJ (May 2005)

#### **Research Mentoring Accomplishments**

- Nomin Sukhbaatar  
Project: *You Only Need a Bit of Luck to Win MTV's Are You the One?*  
Awards: Outstanding Talk Award, 2018 Garden State Undergraduate Mathematics Competition (April 2018)  
Publications: UMAP Journal (2019)

## **SERVICE**

#### **Editorial Board Member**

- Mathematics Magazine, Mathematical Association of America (2020 – present)

#### **Conferences**

- Session Chair: *Networks and Synchronization*  
SIAM Conference on Applications of Dynamical Systems, Snowbird, UT (May 2019)
- Mini-symposium Co-Organizer: *Delay and Stability of Complex Network Dynamics*  
SIAM Conference on Applications of Dynamical Systems, Snowbird, UT (May 2017)
- Session Chair: *Control and System Dynamics*  
SIAM Conference on Applications of Dynamical Systems, Snowbird, UT (May 2013)
- Graduate Student Assistant: *Mythical Scientists and Imaginary Mathematicians Workshop*  
New York State STEP Conference, Albany, NY (March 2011)

- Graduate Student Assistant: *Zombies, Gossip, and Math: On Mathematical Modeling Workshop*  
New York State STEP Conference, Albany, NY (March 2010)

## Reviewer

- Mathematics Magazine
- The American Mathematical Monthly
- International Journal of Bifurcation and Chaos

## Book Reviews

- *Coordinate Systems for Games: Simplifying the “me” and “we” Interactions*  
by D. Jessie & D Saari, Mathematical Reviews (March 2021)
- *Disequilibrium Economics* by Tõnu Puu, Mathematical Reviews (January 2019)
- *Modeling Love Dynamics* by Sergio Rinaldi et al., Mathematical Reviews (January 2017)
- *Computational Neuroscience; A First Course* by Hanspeter A. Mallot, Mathematical Reviews (March 2015)
- *How to Think About Analysis* by Lara Alcock, MAA book Reviews (January 2015)
- *Dynamical Systems with Applications using MATLAB* by Stephen Lynch, MAA Book Reviews (November 2014)

## Judge/Grader

- MAA Student Paper Sessions, MathFest, Cincinnati, OH (August 2019)
- SIAM Mathwork’s Mega Math Challenge (March 2018 & 2020)
- SIAM Moody’s Mega Math Challenge (March 2014, 2015, 2016, & 2017)
- SIAM Integration Bee Competition, SUNY New Paltz (Fall 2013, Spring 2014, & Fall 2014)
- First LEGO League Climate Connections Challenge, Clarkson University (October 2009)

## PROFESSIONAL MEMBERSHIPS

- Mathematical Association of America (MAA) (2013–present)

## REFERENCES

Joseph D. Skufca	Professor and Chair Department of Mathematics Clarkson University Potsdam, NY 13699	(315) 268-2399 jskufca@clarkson.edu
Kathleen R. Kavanagh	Professor Department of Mathematics Clarkson University Potsdam, NY 13699	(315) 268-2376 kfowler@clarkson.edu
Michael A. Jones	Associate Editor AMS Mathematical Reviews 416 Fourth Street Ann Arbor, MI 48103	(734) 995-3881 maj@ams.org
David P. Wick	Assistant Vice President for Research and Student Success Rochester Institute of Technology 138 Lomb Memorial Drive Rochester, NY 14623	(585) 475-4296 dpwmcs@rit.edu