CURRICULUM VITAE OF TOM CUCHTA

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🖓 github.com/tomcuchta 🚇 mathstodon.xyz/@tomcuchta

(\$1,000)

b 0000-0002-6827-4396

EDUCATION

| Missouri University of Science and Technology | Rolla, MO |
|--|-------------------------|
| Ph.D. Mathematics | (2011 Fall-2015 Fall) |
| - Advisor: Dr. Martin Bonner | |
| - Inesis: Discrete analogues of some classical special functions | |
| – Award: Chancellor's Fellowship | |
| Marshall University | Huntington, WV |
| M.A. Mathematics | (2009 Fall–2011 Spring) |
| – Advisor: Dr. Bonita Lawrence | |
| Thesis: Infinitesimal Time Scale Calculus | |
| B.S. Mathematics, 🕿 B.S. Applied Mathematics | (2006 Fall-2009 Spring) |
| POSITIONS | |
| ① Marshall University Department of Mathematics and Physics | Huntington, WV |
| (2023 Fall-present) Assistant Professor of Mathematics | |
| Tairmont State University Department of Computer Science and Mathematics | Fairmont, WV |
| (2016 Fall–2023 Sum) Assistant Professor of Mathematics | |
| 1 Missouri University of Science and Technology Department of Mathematics and Statis | stics Rolla, MO |
| (2016 Spr) Instructor | |
| (2011 Fall–2015 Fall) Graduate Teaching Assistant | |
| ① Marshall University Department of Mathematics | Huntington, WV |
| (2011 Summer) Instructor | |
| (2009 Fall–2011 Spr) Graduate Teaching Assistant | |
| GRANTS | |
| (pending) Co-Principal Investigator: NSF S-STEM Track 2 Implementation grant "CHemistry And Mathematics and Physics Scholars (CHaMPS)" | (\$1,806,610) |
| — (2024 Spr-present) Principal Investigator: NSF Research Experience for Undergradu | uates grant (\$371,668) |

- "Appalachian Mathematics and Physics Site" — (2022 Spr–2023 Sum) **Principal Investigator**: NSF Research Experience for Undergraduates grant (\$323,352) "Discrete and Continuous Analysis in Appalachia"
- (2022 Spr-2023 Spr) Senior Personnel: NSF S-STEM Track 1 Institutional Capacity Building grant (\$749,693)
 "Bridging the STEM Gap in Appalachia: Engaging with students to iteratively improve faculty practices in support of student success"
- (2019 Apr) Fairmont State University Foundation Grant Award
- (2018 Nov-2019 May) Principal Investigator: NASA Software Assurance Research Program grant "Human Hazards in Cybersecurity"
 (\$26,300)
- (2017 Aug-2018 Jul) TMC² Technologies Undergraduate machine learning training grant (\$23,750)

WV NASA Space Grant Consortium Awards

- (2022 Nov–2023 Jul) "Matrix dynamic Gompertz equations"
- (2021 Nov–2022 Jul) "Periodic carrying capacity in Gompertz dynamic equations"
- (2021 Mar–2021 Jul) "Multi-valued matrix logarithm and matrix inverse trig functions on time scales"
- (2020 Nov-2021 Jul) "Discrete Meijer G"

Undergraduate WV NASA Space Grant Consortium Awards Mentored

- (2023 Fal-2024 Spr) Richard Williams "A contour integral approach to solving generalized heat equations on time scales"
- (2022 Nov-2023 Jul) Richard Williams "Linear quadratic pursuit-evasion games on time scales"

- (2021 Nov-2022 Jul) Jacob Branch "Monodiffric extensions of discrete special functions"
- (2020 Nov–2021 Jul) Rebecca Luketic "Discrete Legendre polynomials"
- (2020 Nov-2021 Jul) Dallas Freeman "Discrete polylogarithm functions"
- (2019 Nov-2020 Jul) Brooke Fincham "Discrete fractional population models"

PEER-REVIEWED PUBLICATIONS

- [1] Svetlana S. Akhtamova, Tom Cuchta, and Alexander P. Lyapin. An approach to multidimensional discrete generating series. *Mathematics*, 12(1):143, 2024.
- [2] Tom Cuchta, David Grow, and Nick Wintz. Discrete matrix hypergeometric functions. J. Math. Anal. Appl., 518(2):126716, 2023.
- [3] Tom Cuchta, Dylan Poulsen, and Nick Wintz. Linear quadratic tracking with continuous conformable derivatives. *Eur. J. Control*, 72:100808, 2023.
- [4] Tom Cuchta and Rui AC Ferreira. The heat equation on time scales. *Opuscula Mathematica*, 43(4):475–491, 2023.
- [5] Tom Cuchta and Robert J. Niichel. Memoryless properties on time scales. *Math. Slovaca*, 73(4):911–920, 2023.
- [6] Samer Assaf and Tom Cuchta. Discrete analogues of complementary exponential and sine integral functions. *Demonstr. Math.*, 56(1):20230119, 2023.
- [7] Samer Assaf and Tom Cuchta. The rational sequence topology is partially metrizable. *Top. Proc.*, 62:65–72, 2023.
- [8] Samer Assaf and Tom Cuchta. The half disc topology is partially metrizable. *Top. Proc*, 61:139–144, 2023.
- [9] Tom Cuchta and Dallas Freeman. Discrete polylogarithm functions. *Tatra Mt. Math. Publ.*, 84:1–6, 2023.
- [10] Tom Cuchta, Brian Blackwood, Thomas R. Devine, and Robert J. Niichel. Human risk factors in cybersecurity: Experimental assessment of an academic human attack surface. *Interaction Studies*, 24(3):437–463, 2023.
- [11] Tom Cuchta, David Grow, and Nick Wintz. Divergence criteria for matrix generalized hypergeometric series. *Proc. Am. Math. Soc.*, 150(3):1235–1240, 2022.
- [12] Martin Bohner, Tom Cuchta, and Sabrina Streipert. Delay dynamic equations on isolated time scales and the relevance of one-periodic coefficients. *Math. Meth. Appl. Sci.*, 45(10):5821–5838, 2022.
- [13] Alexander Lyapin and Tom Cuchta. Sections of a generating series of a solution to a difference equation in a simplicial cone. *Bull. Irkutsk State Univ. Ser. Math.*, 42:75–89, 2022.
- [14] Tom Cuchta and Nick Wintz. Periodic functions related to the Gompertz difference equation. *Math. Biosci. Eng.*, 19(9):8774–8785, 2022.
- [15] Ümit Aksoy, Tom Cuchta, Svetlin Georgiev, and Yeliz Yolcu Okur. A normal distribution on time scales with application. *Filomat*, 36(16):5391–5404, 2022.
- [16] Tom Cuchta and Rebecca Luketic. Discrete Hypergeometric Legendre Polynomials. *Mathematics*, 9(20):2546, 2021.
- [17] Tom Cuchta and Sabrina Streipert. A discrete SIS model of fractional order. Int. J. Dyn. Syst. Differ. Equ., 11(3/4):275, 2021.
- [18] Tom Cuchta and Svetlin Georgiev. Analysis of the bilateral Laplace transform on time scales with applications. Int. J. Dyn. Syst. Differ. Equ., 11(3/4):255, 2021.
- [19] Tom Cuchta, Robert Jon Niichel, and Sabrina Streipert. A Gompertz distribution for time scales. *Turk. J. Math.*, 45(1):185–200, 2021.
- [20] Tom Cuchta and Brooke Fincham. Some new Gompertz fractional difference equations. *Involve*, 13(4):705–719, 2020.
- [21] F. Ayça Çetinkaya and Tom Cuchta. Sturm-Liouville and Riccati conformable dynamic equations. *Adv. Dyn. Syst. Appl.*, 15(1):1–13, 2020.
- [22] Samer Assaf, Tom Cuchta, and Matt Insall. Binary metrics. *Topol. Appl.*, 274:107116, 2020.
- [23] Tom Cuchta, Michael Pavelites, and Randi Tinney. The Chebyshev Difference Equation. *Mathematics*, 8(1), 2020.
- [24] Tom Cuchta and Sabrina Streipert. Dynamic Gompertz model. Appl. Math. Info. Sci., 14(1):1–9, 2020.
- [25] Tom Cuchta, David Grow, and Nick Wintz. A dynamic matrix exponential via a matrix cylinder transformation. J. Math. Anal. Appl., 479(1):733–751, 2019.
- [26] Tom Cuchta et al. Human risk factors in cybersecurity. In Proceedings of the 20th Annual SIG Conference on Information Technology Education, SIGITE '19, pages 87–92, New York, NY, USA, 2019. ACM.
- [27] Martin Bohner and Tom Cuchta. The generalized hypergeometric difference equation. *Demonstr. Math.*, 51:62–75, 2018.

- [28] Martin Bohner and Tom Cuchta. The Bessel difference equation. Proc. Am. Math. Soc., 145(4):1567–1580, 2017.
- [29] Abigail Bishop, Tom Cuchta, Kathryn Lokken, and Oliver Pechenik. The nilradical and non-nilradical graphs of commutative rings. *Int. J. Algebra*, 2(17-20):981–994, 2008.
- [30] Tom Cuchta, Kathryn Lokken, and William Young. Zero-divisor graphs of localizations and modular rings. *Rose-Hulman Undergraduate Math Journal*, 9(2), 2008.

BOOK CHAPTERS

— Tom Cuchta and Nick Wintz. 'Foundations of Linear Control Theory on Time Scales'. In Ravi P. Agarwal et. al. *Dynamic Equations on Time Scales and Applications*, CRC Press, Taylor & Francis Group. In press.

TEACHING EXPERIENCE

| Marshall University | | (2023 Fall-2 | 024 Spring) |
|---------------------------|------------|-------------------------------|-------------|
| Course | # sections | Course | # sections |
| Modern Algebra I | 1 | Modern Algebra II | 1 |
| Elementary Linear Algebra | 1 | Calculus I (honors) | 1 |
| Applied Calculus | 1 | Independent Study (lin. alg.) | 1 |

| Fairmont State University (2016 Fall-2023 S | | 023 Spring) | |
|---|------------|------------------------------|------------|
| Course | # sections | Course | # sections |
| Undergraduate Research | 6 | Real Analysis | 3 |
| Topology | 1 | Complex Variables | 1 |
| Differential Equations | 2 | Linear Algebra | 2 |
| Calculus 3 | 4 | Calculus 2 | 6 |
| Mathematical Logic | 6 | Calculus 1 | 3 |
| Applied Calculus 2 | 1 | Intro to Programming | 2 |
| Trigonometry | 10 | Applied Statistics | 3 |
| College Algebra | 2 | College Algebra with Support | 1 |
| Applied Tech Math I | 1 | Pre-College Algebra | 1 |

| Missouri S&T (2011 Fall-2016 Summer) | | Marshall University (2009 Fall-2011 Summer) | |
|--------------------------------------|------------|---|------------|
| Course | # sections | Course | # sections |
| Linear Algebra | 4 | Trigonometry | 3 |
| Differential Equations | 1 | College Algebra | 2 |
| Calculus 3 | 8 | Finite Math | 1 |
| Calculus 1 | 2 | Basic Skills in Mathematics II | 1 |
| "Problem Solving Workshop" | 2 | | |
| "Hit the Ground Running" | 3 | | |

SERVICE

To profession

Conference Special Sessions Organized

 (2024 Jun) Recent advances on time scales and its relation to difference equations International Conference on Difference Equations and Applications

Paris, France

Peer Review

(2024) 6 papers
(2023) 16 papers

Writer for Mathematical Reviews Writer for Zentralblatt Reviews

(2023) 1 review
(2022) 5 reviews

- (2021) 6 reviews

— (2019) 6 reviews

(2023) 2 reviews
(2022) 1 review

- (2022) 20 papers
- (2021) 13 papers
- (2020) 6 reviews
- (2020) 30 papers
 (2019) 15 papers
- (2018) 3 papers
- (2017) 4 papers
- (2016) 2 papers

Editing for ...

Editorial Board member of Fundamental Journal of Mathematics and Applications
 https://dergipark.org.tr/en/pub/fujma

Reviewer for...

- Advances in Continuous and Discrete Models: Theory and Applications
- Advances in Difference Equations
- Advances in the Theory of Nonlinear Analysis and its Application
- AIMS Mathematics
- Analysis: International Mathematical Journal of Analysis and its Applications
- Applied Mathematics in Science and Engineering
- Axioms
- Boundary Value Problems
- Bulletin of Irkutsk State University, Series Mathematics
- Computational and Applied Mathematics
- Differential Equations and Dynamical Systems
- Dynamics of Continuous, Discrete and Impulsive Systems Series A: Mathematical Analysis
- Filomat
- Fundamental Journal of Mathematics and Applications
- Fractal and Fractional
- International Journal of Dynamical Systems and Differential Equations
- Journal of Classical Analysis
- Journal of Difference Equations and Applications
- Journal of Fixed Point Theory and Applications
- Journal of Inequalities and Special Functions
- Journal of Mathematical Analysis and Applications
- Journal of Mathematics and Computer Science
- Journal of Mathematics and Statistics
- Journal of Nonlinear Sciences and Applications
- Journal of the Egyptian Mathematical Society
- Malaysian Journal of Mathematical Sciences
- Mathematical Biosciences and Engineering
- Mathematical Population Studies
- Mathematics
- Nonlinear Dynamics and Systems Theory
- Nonlinearity
- Numerical Methods for Partial Differential Equations
- Proceedings of the West Virginia Academy of Sciences
- Real Analysis Exchange
- Rocky Mountain Journal of Mathematics

- Symmetry
- Turkish Journal of Mathematics
- TWMS Journal of Applied and Engineering Mathematics

To Mathematical Association of America

- (2018 Åpr-2023 Spr) Director of E-Communications, Allegheny Mountain Section
 https://www.alleghenymtn.maa.org/
- (2021-2023 Spr) Founder and Chair, Allegheny Mountain Colloquium
 https://www.alleghenymtn.maa.org/colloquium
- (2022 Apr) Host organizer of Spring 2022 Allegheny Mountain Section conference (moved virtual)
 https://www.alleghenymtn.maa.org/2022springconference
- (2022 Spr) Nominating Committee (chair)
- (2021, 2020 Springs) Nominating Committee
- (2018 Spring) Allegheny Mountain Section 2018 Teaching Award Committee

Other Service to profession

- (2022 Feb-present) Communications Editor for Applied Mathematics in Science and Engineering
 https://twitter.com/AppMathSciEng
- (2022) Review Panel for NSF Division of Mathematical Sciences
- (2016-present) Maintainer of an open source Python project on GitHub for time scale calculus
 https://github.com/tomcuchta/timescalecalculus
- (2012-present) Maintainer of a solutions manual to Rainville's Special Functions
 https://github.com/tomcuchta/rainvillesfsolutions
- Creator and host of...

 - Special Functions Wiki 🏶 http://specialfunctionswiki.org

To Marshall University

Graduate researchers mentored

- (2024 Spr-present) Rebecca Oduro (fractional models on time scales)

Undergraduate researchers mentored

- (2023 Fall-present) Richard Williams (heat equation on time scales)
- (2023 Fall) Andrew Scheneberg (capstone: Lean theorem prover)

Wrote reference letters for Organized student trips

- (2024) 4 individuals (2024) University of Dayton Undergraduate Conference Dayton, OH
- (2023) 7 individuals

College of Science

— (2023 Fall–present) College of Science Research & Scholarships Committee (elected)

Department of Mathematics and Physics

- (2023 Fall–2024 Spr) Thesis committee of Evan Abshire
- (2023 Nov) Judge for senior capstone course poster session
- (2023 Sum-present) System administrator of department WeBWork server

Thundering Herd Amateur Radio Club

- (2024 Feb) Campus radio operation day
- (2023 Nov) Parks on the Air club trip to Wayne National Forest
- (2023 Oct) Cabell County, WV community disaster exercise
- (2023 Sep-present) Club trustee
- (2023 Sep) Club issued callsign W8HRD
- (2023 Sep) Campus radio operation day
- (2023 Fall-present) Faculty advisor of the club; meetings every two weeks of the semester

To Fairmont State University

Undergraduate researchers mentored

- (Sum 2023) (DCAA) Drew Barnes, Raina Burton, Vincent Ng
- (Sum 2022) (DCAA) Megan Benkendorf, Tim Lund, Guaravpreet Singh
- (2022-2023) Richard Williams (discrete fractional calc. of variations, pursuit-evasion games on time scales)
- (2021–2022) Jacob Branch (discrete complex analysis)
- (2020-2021) Rebecca Luketic (discrete Legendre polynomials)
- (2020-2021) Dallas Freeman (discrete polylogarithms)
- (2019-2020) Brooke Fincham (discrete fractional population models)
- (2019) Michael Pavelites (discrete Chebyshev polynomials)
- (2019) Kristina Daniels, Caleb Lutjens, Sydney Maibach, Ryan Stephenson (NASA IV&V SARP grant)
- (2018-2019) Matthias Baur (timescalecalculus package)
- (2018) Randi Tinney (discrete Chebyshev polynomials)
- (2017-2018) Mattison Johnson, Dawn Sargent, Carl Wahler, Anna Westfall (TMC² Technologies grant)
- (2017–2018) Zack Linger (zeta functions on time scales)
- (2017) Treston Brown (discrete special functions)
- (2016) Antonietta Bonanno (educational methods in geometry; masters student from U. Calabria, Italy)

Wrote reference letters for...

Organized student trips

- (2022) 7 individuals
- (2021) 7 individuals
- (2020) 6 individuals
- (2019) 9 individuals
- (2018) 3 individuals
- (2017) 1 individual

- (2023) Allegheny Mountain MAA conference
- (2023) JMM with 2022 REU students
- (2020) Pi Mu Epsilon conference
- (2019) Marshall University differential analyzer
- (2019) Pi Mu Epsilon conference
- (2019) Miami University of Ohio Annual Conference
- (2018) Allegheny Mountain MAA conference
- (2018) Pi Mu Epsilon conference
- (2017) Ohio MAA conference
- (2017) Marshall University differential analyzer
- (2017) Pi Mu Epsilon conference

Fairmont State University Faculty Senate

- (2022 Fall-2023 Spr, 2019 Fall-2021 Spr) Faculty Senate Executive Committee (Webmaster) https://www.fairmontstate.edu/facstaffresources/fsusenate
- (2022 Spr) Faculty Senate Committee on Committees (Past Chair; ex-officio)
- (2021, 2020 Springs) Faculty Senate Committee on Committees (Chair)
- (2021 Spr) Executive Committee Provost Interviews and Faculty Forums
- (2020 Fall-2023 Spr) Faculty Senate Bylaws Committee
- (2019, 2018 Springs) Faculty Senate Committee on Committees (member)
- (2018 Fall–2019 Spr) Faculty Senate Executive Committee (at large member)
- (2017 Spr-2023 Spr) Senator for Department of Computer Science and Mathematics

Other Service at Fairmont State University

- (2023 Spr) Computer Science hiring committee
- (2021 Dec-2022 Sep) Host of Visiting Fulbright Scholar Alexander Lyapin (Siberian Federal University)
- (2022 Fall, 2017 Spr) Mathematics program advisory board committee
- (2021 Nov, 2019 Oct) Judge at Fairmont State honors quiz bowl
- (2021 Fall-2023 Spr) Honors Council
- (2021 Jul) Volunteer judge at WVU Undergraduate Culminating Symposium
- (2021 Spr) University website vendor procurement committee
- (2020 Fall-2023 Spr) Operator of the tcsmath.fairmontstate.edu server (not public-facing) providing WeBWork and RStudio for math classes
- (2018 Fall–2023 Spr) Coordinator of calculus assessment
- (2018 Fall–2023 Spr) Technology Committee
- (2017 Fall-2023 Spr) Student Publications Board
- (2018 Fall–2020 Spr) Institutional Review Board
- (2016-2023 Spr) Social media for mathematics program
- (2016–2019) Organized visiting lecturers for department seminars

CONFERENCE TALKS

Edinboro, PA

Boston, MA

Youngstown, OH

Huntington, WV

Youngstown, OH

Oxford, OH

Erie, PA

St. Clairsville, OH

Youngstown, OH

- Youngstown, OH Huntington, WV

| Research Conferences | |
|---|--|
| — (2023 Oct) TYAN-Humboldt Workshop in Mathematics (invited) | |
| University of Brasília | Brasília, Brazil |
| — (2023 Jan) Special Session on Ecological and Evolutionary Dynamics in Life and Social | Sciences (invited) |
| Joint Mathematics Meetings | Boston, MA |
| — (2023 Jan) Special Session on Advances in qualitative theory and applications to life s | ciences of differential, |
| difference, and dynamic equations (invited) | |
| Joint Mathematics Meetings | Boston, MA |
| — (2023 Jan) Special Session on Discrete and Hybrid Dynamical Systems: Time Scales an | nd Fractional |
| Approaches (invited) | |
| Joint Mathematics Meetings | Boston, MA |
| - (2022 Sep) Session: Hybrid phenomena in systems and control (invited) | |
| IFAC Symposium on System Structure and Control | Montreal, QC |
| — (2022 May) Dynamic equations on time scales workshop (invited) Mathematical conference control | Dedlawa Deland |
| Mathematical conference centre | Będlewo, Poland |
| - (2022 Apr) Special Session on Analysis of and Recent Advances in Difference, Difference | tiat and Dynamic |
| Equations with Applications (invited) | (virtual) |
| John Mathematics Meetings — (2021 Aug) Dynamic equations on time scales workshop (invited) | (VIItual) |
| Mathematical conference centre | Bedlewo Poland |
| — (2021 Jul) International Conference on Difference Equations and Applications | Dçulewo, Folaliu |
| University of Sarajevo | (virtual) |
| – (2020 Aug) Dynamic equations on time scales workshop (invited) | (incodi) |
| Mathematical conference centre | Bedlewo, Poland |
| - (2020 May) 95th Annual WV Academy of Sciences Meeting (invited plenary speaker , ca | ancelled) |
| Fairmont State University | Fairmont, WV |
| — (2019 Sep) 47th Annual Math Conference: Differential Equations and Dynamical Syster | ns and their |
| Applications | |
| | |
| Miami University | Oxford, OH |
| Miami University — (2019 Jul) International Conference on Differential & Difference Equations and Applica | Oxford, OH ations |
| Miami University — (2019 Jul) International Conference on Differential & Difference Equations and Applica VIP Zurique Hotel | Oxford, OH ations Lisbon, Portugal |
| Miami University — (2019 Jul) International Conference on Differential & Difference Equations and Applica VIP Zurique Hotel — (2019 Jun) Dynamic equations on time scales workshop (invited plenary speaker) | Oxford, OH ations Lisbon, Portugal |
| Miami University – (2019 Jul) International Conference on Differential & Difference Equations and Applica VIP Zurique Hotel – (2019 Jun) Dynamic equations on time scales workshop (invited plenary speaker) Mathematical conference centre | Oxford, OH ations Lisbon, Portugal Będlewo, Poland |
| Miami University – (2019 Jul) International Conference on Differential & Difference Equations and Applica VIP Zurique Hotel – (2019 Jun) Dynamic equations on time scales workshop (invited plenary speaker) Mathematical conference centre – (2019 Jan) Mathematical Experiences and Projects in Business, Industry, and Governments | Oxford, OH ations Lisbon, Portugal Będlewo, Poland nent |
| Miami University – (2019 Jul) International Conference on Differential & Difference Equations and Applica VIP Zurique Hotel – (2019 Jun) Dynamic equations on time scales workshop (invited plenary speaker) Mathematical conference centre – (2019 Jan) Mathematical Experiences and Projects in Business, Industry, and Governm Joint Mathematics Meetings | Oxford, OH ations Lisbon, Portugal Będlewo, Poland Baltimore, MD |
| Miami University (2019 Jul) International Conference on Differential & Difference Equations and Applica VIP Zurique Hotel (2019 Jun) Dynamic equations on time scales workshop (invited plenary speaker) Mathematical conference centre (2019 Jan) Mathematical Experiences and Projects in Business, Industry, and Governm Joint Mathematics Meetings (2018 Aug) International Workshop on Nonlinear Dynamical Systems and Functional Applications | Oxford, OH ations Lisbon, Portugal Będlewo, Poland nent Baltimore, MD Analysis |
| Miami University (2019 Jul) International Conference on Differential & Difference Equations and Applica VIP Zurique Hotel (2019 Jun) Dynamic equations on time scales workshop (invited plenary speaker) Mathematical conference centre (2019 Jan) Mathematical Experiences and Projects in Business, Industry, and Governm Joint Mathematics Meetings (2018 Aug) International Workshop on Nonlinear Dynamical Systems and Functional A University of Brasília | Oxford, OH ations Lisbon, Portugal Będlewo, Poland nent Baltimore, MD Analysis Brasília, Brazil |
| Miami University (2019 Jul) International Conference on Differential & Difference Equations and Applica VIP Zurique Hotel (2019 Jun) Dynamic equations on time scales workshop (invited plenary speaker) Mathematical conference centre (2019 Jan) Mathematical Experiences and Projects in Business, Industry, and Governm Joint Mathematics Meetings (2018 Aug) International Workshop on Nonlinear Dynamical Systems and Functional A University of Brasília (2017 Jul) International Conference on Difference Equations and Applications | Oxford, OH ations Lisbon, Portugal Będlewo, Poland nent Baltimore, MD Analysis Brasília, Brazil |
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| Miami University (2019 Jul) International Conference on Differential & Difference Equations and Applica VIP Zurique Hotel (2019 Jun) Dynamic equations on time scales workshop (invited plenary speaker) Mathematical conference centre (2019 Jan) Mathematical Experiences and Projects in Business, Industry, and Governm Joint Mathematics Meetings (2018 Aug) International Workshop on Nonlinear Dynamical Systems and Functional A University of Brasília (2017 Jul) International Conference on Difference Equations and Applications West University of Timişoara (2014 May) Conference on Partial Differential Equations | Oxford, OH ations Lisbon, Portugal Będlewo, Poland nent Baltimore, MD Analysis Brasília, Brazil Timişoara, Romania |
| Miami University (2019 Jul) International Conference on Differential & Difference Equations and Applica VIP Zurique Hotel (2019 Jun) Dynamic equations on time scales workshop (invited plenary speaker) Mathematical conference centre (2019 Jan) Mathematical Experiences and Projects in Business, Industry, and Governm Joint Mathematics Meetings (2018 Aug) International Workshop on Nonlinear Dynamical Systems and Functional A University of Brasília (2017 Jul) International Conference on Difference Equations and Applications West University of Timişoara (2014 May) Conference on Partial Differential Equations Abbazia di Novacella | Oxford, OH ations Lisbon, Portugal Będlewo, Poland ent Baltimore, MD Brasília, Brazil Timişoara, Romania Neustift, Italy |
| Miami University (2019 Jul) International Conference on Differential & Difference Equations and Application VIP Zurique Hotel (2019 Jun) Dynamic equations on time scales workshop (invited plenary speaker) Mathematical conference centre (2019 Jan) Mathematical Experiences and Projects in Business, Industry, and Governm Joint Mathematics Meetings (2018 Aug) International Workshop on Nonlinear Dynamical Systems and Functional A University of Brasília (2017 Jul) International Conference on Difference Equations and Applications West University of Timişoara (2014 May) Conference on Partial Differential Equations Abbazia di Novacella Mathematical Association of America Conferences | Oxford, OH ations Lisbon, Portugal Będlewo, Poland ent Baltimore, MD Analysis Brasília, Brazil Timişoara, Romania Neustift, Italy |
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| Miami University (2019 Jul) International Conference on Differential & Difference Equations and Applicative VIP Zurique Hotel (2019 Jun) Dynamic equations on time scales workshop (invited plenary speaker) Mathematical conference centre (2019 Jan) Mathematical Experiences and Projects in Business, Industry, and Governm Joint Mathematics Meetings (2018 Aug) International Workshop on Nonlinear Dynamical Systems and Functional A University of Brasília (2017 Jul) International Conference on Difference Equations and Applications West University of Timişoara (2014 May) Conference on Partial Differential Equations Abbazia di Novacella Mathematical Association of America Conferences (2023 Apr) Allegheny Mountain Section Conference (2024 Apr) Allegheny Mountain Section Conference (2024 Apr) Allegheny Mountain Section Conference | Oxford, OH ations Lisbon, Portugal Będlewo, Poland ent Baltimore, MD Analysis Brasília, Brazil Timişoara, Romania Neustift, Italy Edinboro, PA (virtual) |
| Miami University (2019 Jul) International Conference on Differential & Difference Equations and Applicative VIP Zurique Hotel (2019 Jun) Dynamic equations on time scales workshop (invited plenary speaker) Mathematical conference centre (2019 Jan) Mathematical Experiences and Projects in Business, Industry, and Governm Joint Mathematics Meetings (2018 Aug) International Workshop on Nonlinear Dynamical Systems and Functional A University of Brasília (2017 Jul) International Conference on Difference Equations and Applications West University of Timişoara (2014 May) Conference on Partial Differential Equations Abbazia di Novacella Mathematical Association of America Conferences (2023 Apr) Allegheny Mountain Section Conference (2021 Apr) Allegheny Mountain Section Conference (2021 Apr) Allegheny Mountain Section Conference | Oxford, OH ations Lisbon, Portugal Będlewo, Poland ent Baltimore, MD Analysis Brasília, Brazil Timişoara, Romania Neustift, Italy Edinboro, PA (virtual) (virtual) |
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| Fairmont S | State University | Fairmont, WV |
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| - (2019-202 | 1) WVU Math Colloquium (3 talks) | |
| West Virgi | nia University | Morgantown, WV |
| - (2011-2016 | 5) Time Scales Seminar (17 talks) | |
| Missouri L | Iniversity of Science & Technology | Rolla, MO |
| - (2011-2016 | 5) Analysis Seminar (7 talks) | |
| Missouri L | Iniversity of Science & Technology | Rolla, MO |
| - (2011-2016 | 5) Topology and Hyperspaces Seminar (10 talks) | |
| Missouri L | Iniversity of Science & Technology | Rolla, MO |
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