Curriculum vitae of Tom Cuchta

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EDUCATION

Missouri University of Science and Technology Rolla, MO
🎓 Ph.D. Mathematics (2011 Fall–2015 Fall)
- Advisor: Dr. Martin Bohner
- Thesis: 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

🏛 **Marshall University** *Department of Mathematics and Physics* Huntington, WV
(2023 Fall–present) Assistant Professor of Mathematics
🏛 **Fairmont State University** *Department of Computer Science and Mathematics* Fairmont, WV
(2016 Fall–2023 Sum) Assistant Professor of Mathematics
🏛 **Missouri University of Science and Technology** *Department of Mathematics and Statistics* Rolla, MO
(2016 Spr) Instructor
(2011 Fall–2015 Fall) Graduate Teaching Assistant
🏛 **Marshall University** *Department of Mathematics* Huntington, WV
(2011 Summer) Instructor
(2009 Fall–2011 Spr) Graduate Teaching Assistant

GRANTS

- (2025 Fall–*present*) **Principal Investigator**: NSF Launching of Early-Career Academic Pathways in the Mathematical and Physical Sciences ($237,882)
  "*LEAPS-MPS: Dynamic Special Functions*"
- (2024 Spr–*present*) **Principal Investigator**: NSF Research Experience for Undergraduates grant ($371,668)
  "*REU Site: Appalachian Mathematics and Physics Site*"
- (2022 Spr–2023 Sum) **Principal Investigator**: NSF Research Experience for Undergraduates grant ($323,352)
  "*REU Site: 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 ($1,000)
- (2018 Nov–2019 May) **Principal Investigator**: NASA Software Assurance Research Program grant
  "*Human Hazards in Cybersecurity*" ($26,300)
- (2017 Aug–2018 Jul) TMC^2 Technologies Undergraduate machine learning training grant ($23,750)

WV NASA Space Grant Consortium Awards

- (2024 Nov–2024 Dec) "*Differential Analyzer in Lexington*"
- (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

- (2024–2025) Richard Williams "*Numerical Solutions to the Heat Equations on Time Scales*"

- (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] Megen Benkendorf, Tom Cuchta, Tim Lund, and Gauravpreet Singh. The Anger difference equation. *J. Classical Analysis*. To appear, 2025.

[2] Svetlana S. Akhtamova, Tom Cuchta, and Alexander P. Lyapin. An approach to multidimensional discrete generating series. *Mathematics*, 12(1):143, 2024.

[3] Tom Cuchta, David Grow, and Nick Wintz. Discrete matrix hypergeometric functions. *J. Math. Anal. Appl.*, 518(2):126716, 2023.

[4] Tom Cuchta, Dylan Poulsen, and Nick Wintz. Linear quadratic tracking with continuous conformable derivatives. *Eur. J. Control*, 72:100808, 2023.

[5] Tom Cuchta and Rui AC Ferreira. The heat equation on time scales. *Opuscula Mathematica*, 43(4):475–491, 2023.

[6] Tom Cuchta and Robert J. Niichel. Memoryless properties on time scales. *Math. Slovaca*, 73(4):911–920, 2023.

[7] Samer Assaf and Tom Cuchta. Discrete analogues of complementary exponential and sine integral functions. *Demonstr. Math.*, 56(1):20230119, 2023.

[8] Samer Assaf and Tom Cuchta. The rational sequence topology is partially metrizable. *Top. Proc.*, 62:65–72, 2023.

[9] Samer Assaf and Tom Cuchta. The half disc topology is partially metrizable. *Top. Proc*, 61:139–144, 2023.

[10] Tom Cuchta and Dallas Freeman. Discrete polylogarithm functions. *Tatra Mt. Math. Publ.*, 84:1–6, 2023.

[11] 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.

[12] Tom Cuchta, David Grow, and Nick Wintz. Divergence criteria for matrix generalized hypergeometric series. *Proc. Am. Math. Soc.*, 150(3):1235–1240, 2022.

[13] 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.

[14] 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.

[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

— F. Ayça Ayça Çetinkaya, Tom Cuchta, Nick Wintz. 'Solutions of dynamic Sturm–Liouville conformable initial and boundary value problems'. In Pierluigi Benevieri and Jaqueline Mesquita *Functional Differential Equations and Dynamic Equations on time scales - With Applications to Continuum Mechanics*, 2025.
— 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, 2024.

TEACHING EXPERIENCE

Marshall University (2023 Fall–2025 Fall)

Course	# sections	Course	# sections
Real Variables I	1	Advanced Calculus I	1
Advanced Calculus II	1	Advanced Differential Equations	1
Modern Algebra I	1	Modern Algebra II	1
Differential Equations	2	Introduction to Higher Mathematics	1
Elementary Linear Algebra	1	Calculus I (honors)	1
Applied Calculus	2	Independent Study (matrix spec. func.)	1
Independent Study (lin. alg.)	1		

Fairmont State University (2016 Fall–2023 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)

Course	# sections
Linear Algebra	4
Differential Equations	1
Calculus 3	8
Calculus 1	2
"Problem Solving Workshop"	2
"Hit the Ground Running"	3

Marshall University (2009 Fall–2011 Summer)

Course	# sections
Trigonometry	3
College Algebra	2
Finite Math	1
Basic Skills in Mathematics II	1

SERVICE

To profession

Editor Positions

— Associate Editor of *The College Mathematics Journal*
https://www.tandfonline.com/journals/ucmj20/about-this-journal
— Editorial Board member of *Fundamental Journal of Mathematics and Applications*
https://dergipark.org.tr/en/pub/fujma

Conference Organizing

— (2025 Jun) **Organizing committee member** Dynamical equations on time scales
Mathematical conference centre Będlewo, Poland
— (2025 Jan) **Session co-Organizer** AMS Special Session on Generalized Derivatives: Analysis on Time Scales, Fractional Calculus, Difference Equations, and Others
Joint Mathematics Meetings Seattle, Washington
— (2024 Jun) **Session co-Organizer** Recent advances on time scales and its relation to difference equations
International Conference on Difference Equations and Applications Paris, France

Peer Review

— (2025) 21 papers
— (2024) 23 papers
— (2023) 16 papers
— (2022) 20 papers
— (2021) 14 papers
— (2020) 30 papers
— (2019) 15 papers
— (2018) 3 papers
— (2017) 4 papers
— (2016) 2 papers

Writer for *Mathematical Reviews*

— (2025) 3 reviews
— (2024) 2 reviews
— (2023) 3 reviews
— (2022) 5 reviews
— (2021) 6 reviews
— (2020) 6 reviews
— (2019) 6 reviews

Writer for *Zentralblatt Reviews*

— (2024) 2 reviews
— (2023) 2 reviews
— (2022) 2 reviews

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 and Information Sciences
— Applied Mathematics in Science and Engineering
— Axioms
— Boundary Value Problems
— Bulletin of Irkutsk State University, Series Mathematics
— Computational and Applied Mathematics
— Demonstratio Mathematica
— Differential Equations and Dynamical Systems
— Dynamics of Continuous, Discrete and Impulsive Systems Series A: Mathematical Analysis
— Filomat
— Forschung im Ingenieurwesen
— Fractal and Fractional
— Fundamental Journal of Mathematics and Applications
— Fractal and Fractional
— Fractional Differential Calculus
— Fundamental Journal of Mathematics and Applications
— 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 Mathematical Sciences
— Journal of Mathematics and Computer Science
— Journal of Mathematics and Statistics
— Journal of Nonlinear Sciences and Applications

— Journal of Numerical Analysis, Industrial and Applied Mathematics
— 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
— Rocky Mountain Journal of Mathematics
— 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

— (2023 Fall–present) **Webmaster**, Ohio Section
https://www.ohio.maa.org/
— (2018 Apr–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

To Marshall University

Graduate researchers mentored

— (2025 Fall–present) Richard Williams (time scales calculus)
— (2025 Fall–present) Alexa Sayles (matrix special functions)
— (2024 Spr–2025 Spr) Rebecca Oduro (fractional difference equations)
— (2024 Fall–2025 Spr) Wasiu Sule (probability on time scales)

Undergraduate researchers mentored

— (2024 Fall) Alexa Sayles (capstone: exponential functions and regressivity on time scales)
— (2023 Fall–Spr 2025) Richard Williams (partial dynamic equations, capstone: stability of TS exponentials)
— (2023 Fall) Andrew Scheneberg (capstone: Lean theorem prover)

Served as reference for. . .

— (2024) 14 individuals
— (2023) 8 individuals

Organized student trips

— (Nov 2024) SE-Atlantic Regional Conf. on DiffEqs — Morgantown, WV
— (Apr 2024) Allegheny Mtn. MAA Conference — Fairmont, WV
— (Nov 2023) U. Dayton Undergraduate Conference — Dayton, OH

College of Science

— (2023 Fall–present) College of Science Research & Scholarships Committee (elected)
— (2025 Apr, 2025 Feb) Green & White Day

— (2025 Apr) High School Science Day

Department of Mathematics and Physics

— (2025 Spring–present) Graduate committee
— (2025 Spring) Thesis committee of Robert Ireri
— (2024 Fall) Curriculum work on BS in Mathematics emphasis in Cryptography
— (2024 Fall) Revision of MTH 455 (Number Theory)
— (2024 Fall–present) Colloquium Coordinator
— (2024 Sum) Created MTH 329-Online (Elementary Linear Algebra)
— (2024 Sum) **Organizer & PI**: REU Site: Appalachian Mathematics and Physics Site
— (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 webpages
  – WeBWork server `https://webwork.marshall.edu`
  – REU program webpage `http://amps.marshall.edu/`
  – 2022 ICOSDA Conference webpage `http://icosda22.marshall.edu/`

Thundering Herd Amateur Radio Club

— (2024 Nov) Parks on the Air club trip to Mill Creek Wildlife Management Area
— (2024 Oct) Campus radio operation day
— (2024 Oct) Cabell County, WV community disaster exercise
— (2024 Oct) Parks on the Air Community Event at Beech Fork
— (2024 Apr) "Severe Weather – Radio and Preparedness" with invited speaker from NWS Tony Edwards
— (2024 Apr) Campus radio operation day
— (2024 Mar) Parks on the Air club trip to Daniel Boone National Forest
— (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

— (2022–2024) Richard Williams (discrete fractional calc. of variations, pursuit-evasion games on time scales, heat equation on time scales)
— (Sum 2023) (DCAA) Drew Barnes, Raina Burton, Vincent Ng (discrete special functions)
— (Sum 2022) (DCAA) Megan Benkendorf, Tim Lund, Guaravpreet Singh (discrete special functions)
— (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 (TMC^2 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...

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

Organized student trips

- (2023) Allegheny Mountain MAA conference — Edinboro, PA
- (2023) JMM with 2022 REU students — Boston, MA
- (2020) Pi Mu Epsilon conference — Youngstown, OH
- (2019) Marshall University differential analyzer — Huntington, WV
- (2019) Pi Mu Epsilon conference — Youngstown, OH
- (2019) Miami University of Ohio Annual Conference — Oxford, OH
- (2018) Allegheny Mountain MAA conference — Erie, PA
- (2018) Pi Mu Epsilon conference — Youngstown, OH
- (2017) Ohio MAA conference — St. Clairsville, OH
- (2017) Marshall University differential analyzer — Huntington, WV
- (2017) Pi Mu Epsilon conference — Youngstown, OH

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 csmath.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

Research Conferences

- (2025 Jul) Complex, dynamic equations on time scales & difference equations & their applications (**invited**)
  4th Mathematical Congress of the Americas — Miami, FL
- (2025 Jul) Recent results from time scales calculus (**invited**)
  30th International Conference on Difference Equations and Applications — Guangzhao, China (virtual)
- (2025 June) Dynamical equations on time scales workshop (**invited**)
  Mathematical conference centre — *Będlewo, Poland*
- (2025 Mar) Special Session on Theoretical, Applied and Numerical Aspects of Nonlinear PDEs (**invited**)
  AMS Central Section Meeting — *Lawrence, KS*
- (2025 Jan) Special Session on Generalized Derivatives: Analysis on Time Scales, Fractional Calculus, Difference Equations, and Others (**invited**)
  Joint Mathematics Meetings — Seattle, WA
- (2025 Jan) Special Session on Dynamic Horizons in Mathematical Biology and Ecology: Current Insights and Future Prospects (**invited**)
  Joint Mathematics Meetings — Seattle, WA

— (2024 Nov) 42nd Southeastern-Atlantic Regional Conf. on Differential Equations (**invited**) Morgantown, WV
— (2024 Sep) Special Session on Hypergeometric Functions, Orthogonal Polynomials, and Multivariable Polynomials (**invited**)
8th Approximation Theory and Special Functions Conference Ankara, Türkiye
— (2024 Jun) Recent advances on time scales and its relation to difference equations (**invited**)
29th International Conference on Difference Equations and Applications Paris, France.
— (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 sciences of differential, difference, and dynamic equations (**invited**)
Joint Mathematics Meetings Boston, MA
— (2023 Jan) Special Session on Discrete and Hybrid Dynamical Systems: Time Scales and 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 Montréal, QC
— (2022 May) Dynamic equations on time scales workshop (**invited**)
Mathematical conference centre Będlewo, Poland
— (2022 Apr) Special Session on Analysis of and Recent Advances in Difference, Differential and Dynamic Equations with Applications (**invited**)
Joint Mathematics Meetings (virtual)
— (2021 Aug) Dynamic equations on time scales workshop (**invited**)
Mathematical conference centre Będlewo, Poland
— (2021 Jul) International Conference on Difference Equations and Applications
University of Sarajevo (*virtual*)
— (2020 Aug) Dynamic equations on time scales workshop (**invited**)
Mathematical conference centre Będlewo, Poland
— (2020 May) 95th Annual WV Academy of Sciences Meeting (**invited plenary speaker**, cancelled)
Fairmont State University Fairmont, WV
— (2019 Sep) 47th Annual Math Conference: Differential Equations and Dynamical Systems and their Applications
Miami University Oxford, OH
— (2019 Jul) International Conference on Differential & Difference Equations and Applications
VIP Zurique Hotel Lisbon, Portugal
— (2019 Jun) Dynamic equations on time scales workshop (**invited plenary speaker**)
Mathematical conference centre Będlewo, Poland
— (2019 Jan) Mathematical Experiences and Projects in Business, Industry, and Government
Joint Mathematics Meetings Baltimore, MD
— (2018 Aug) International Workshop on Nonlinear Dynamical Systems and Functional Analysis
University of Brasília Brasília, Brazil
— (2017 Jul) International Conference on Difference Equations and Applications
West University of Timişoara Timişoara, Romania
— (2014 May) Conference on Partial Differential Equations
Abbazia di Novacella Neustift, Italy

Mathematical Association of America Conferences

— (2023 Apr) Allegheny Mountain Section Conference Edinboro, PA
— (2022 Apr) Allegheny Mountain Section Conference (virtual)
— (2021 Apr) Allegheny Mountain Section Conference (virtual)
— (2019 Apr) Allegheny Mountain Section Conference Shepherdstown, WV
— (2018 Apr) Allegheny Mountain Section Conference Erie, PA
— (2017 Oct) Ohio Section Fall Conference St. Clairsville, OH
— (2017 Apr) Allegheny Mountain Section Conference Pittsburgh, PA
— (2016 Oct) Ohio Section Fall Conference Wooster, OH

— (2015 Mar) Missouri Section Spring Conference — Rolla, MO

Seminar and Colloquium Talks

— *(2024 Nov) Math Club Seminar*
University of Kentucky — *Lexington, KY*

— (2024 Oct) Math Club Seminar
Missouri University of Science & Technology — (virtual)

— (2023 Apr) University of Tulsa Amateur Radio Club
University of Tulsa — (virtual)

— (2022 Jul) First2 Immersion Program
Fairmont State University — Fairmont, WV

— (2019–2021) West Virginia University Math Colloquium (3 talks)
West Virginia University — Morgantown, WV

— (2011–2016) Time Scales Seminar (17 talks)
Missouri University of Science & Technology — Rolla, MO

— (2011–2016) Analysis Seminar (7 talks)
Missouri University of Science & Technology — Rolla, MO

— (2011–2016) Topology and Hyperspaces Seminar (10 talks)
Missouri University of Science & Technology — Rolla, MO