#### CURRICULUM VITAE

### Ferhan Merdivenci Atıcı

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## UNIVERSITY EDUCATION

- Ph.D (Mathematics) University of Nebraska at Lincoln, 1995.
- M.S (Mathematics) University of Nebraska at Lincoln, 1993.
- B.S (Mathematics) Ege University, 1989.

# ACADEMIC EXPERIENCE

- University Distinguished Professor, Department of Mathematics, Western Kentucky University, 2018-present.
- Professor, Department of Mathematics, Western Kentucky University, 2011-present.
- Associate Professor, Department of Mathematics, Western Kentucky University, 2005-2011.
- Assistant Professor, Department of Mathematics, Western Kentucky University, 2003-2005.
- Visiting Assistant Professor, Department of Mathematics, Western Kentucky University, 2001-2003.
- Associate Professor, Department of Mathematics, Ege University, 1999-2002.
- Assistant Professor, Department of Mathematics, Ege University, 1996-1999.
- Visiting one year position, Department of Mathematics and Statistics, University of Nebraska at Lincoln, 1995-1996.
- Teaching Assistant, Department of Mathematics and Statistics, University of Nebraska at Lincoln, 1991-1995.
- Teaching Assistant, Department of Mathematics, Ege University 1989-1990.

#### CERTIFICATES

- Certificate to teach at High School. (A Certificate was earned after completing 12 months of training at Ege University) 1989.
- Certificate to teach at College Level. (A Certificate was earned after completing 9 months of training at University of Nebraska) 1991.

## DISSERTATION TITLE

Fixed Points Techniques in Cone Theory with Applications to Difference Equations. Supervisor: Dr. Allan C. Peterson

#### CURRENT FIELDS OF INTEREST

Difference Equations, Differential Equations, Calculus on Time Scales, Dynamic Equations and Their Applications to Economics, Fractional Calculus and Their Applications to Medical Sciences.

# SUPERVISED THESIS

- Master Thesis: "h Discrete Fractional Model of Tumor Growth and Anticancer Effects of Mono and Combination Therapies," Kamala Dadashova, 2020.
- Master Thesis: "Controllability and Observability of Linear Nabla Discrete Fractional Systems," Tilekbek Zhoroev, 2019.
- Master Thesis: "The Controllability and Observability of the Discrete Fractional Linear State-Space Model," Duc Nguyen, 2018.
- Master Thesis: "Discrete Fractional Hermite-Hadamard Inequality," Aykut Arslan, 2017.
- Master Thesis: "Stability of Linear Difference Systems in Discrete and Fractional Calculus," Aynur Er, 2017.
- Master Thesis: "Analysis of Discrete Fractional Operators and Discrete Fractional Rheological Models," Meltem Uyanık, 2015.
- Master Thesis: "Green's Functions of Discrete Fractional Boundary Value Problems and Application of Discrete Fractional Calculus to a Pharmacokinetics Model," Sutthirut Charoenphon, 2014.
- Master Thesis: "Anayzing and Solving Nonlinear Stochastic Dynamic Models on Non-periodic Discrete Time Domains", Gang Cheng, 2013.
- Master Thesis: "Nabla Fractional Calculus and its Application in Analyzing Tumor Growth of Cancer", Fang Wu, 2012.
- Master Thesis: "Development of Nabla Fractional Calculus and A New Approach to Data Fitting in Time Dependent Cancer Therapeutic Study", Nihan Acar, 2012.

- Master Thesis: "Cagan Type Rational Expectation Models on Time Scales with Their Applications to Economics", Funda Ekiz, 2011.
- Master Thesis: "Development of Fractional Trigonometry and An Application of Fractional Calculus to Pharmacokinetic Model", Amera Almusharff, 2011.
- Master Thesis: "Deterministic and Stochastic Bellman's Optimality Principles on Isolated Time Domains and Their Applications in Finance", Nezihe Turhan, 2011.
- Master Thesis: "Discrete Fractional Calculus and Its Applications to Tumor Growth", Sevgi Şengül, 2010.
- Master Thesis: "Fractional Calculus: Definitions and Applications", Joseph Kimeu, 2009.
- Master Thesis: "Calculus of Variations on Time Scales and its Applications to Economics", Christopher S. McMahan, 2008.
- Master Thesis: "Lebesgue Nabla Measure and Riemann Nabla Integration", Heather Bjorum, 2005.
- Master Thesis: "Analysis of Economic Models Through Calculus of Variations", Raman Arora, 2005.
- Master Thesis: "Bounds of eigenvalues which guarantee the existence of positive solutions", Sibel Delibalci, 1999.
- Ph.D Thesis: "Calculus and Dynamic Equations on Time Scales", Serap Gulsan Topal, 2001.

### DIRECTED SENIOR PROJECTS

- "Modeling Infectious Diseases Using Discretized SIR Model," Kendi Ashburn, WKU, Spring 2025.
- "The Application of Hamilton Flows in Cyclotron Motion," by Gabriel Nowaskie, WKU, Spring 2025.
- "An Investigation into the Four Vertex Theorem," by Cole Mohr, WKU, Spring 2024.
- "Optimization's Role in Economics", by Brooklyn Holder, WKU, Spring 2022.
- "Introduction to Discrete Calculus and Some Applications", by Sarah Angelle, WKU, Fall 2017.
- "Mittag-Leffler Functions of Fractional Calculus", by Scott Greschel, WKU, Spring 2014.
- "The best way to shoot a free throw", by Blake Martin, WKU, Spring 2010.
- "Fractional q-Fourier Transform: A Fresh Look at a Staple Integral Transform", by Landon Oakes, WKU, Spring 2010.
- "A Quasilinearization Method and Its Applications in Physics", by Britney Barrow, WKU, Spring 2009.
- "Math and Dance: Contra and Square Dancing", by Emily Hartman, WKU, Spring 2008.
- "Government Funded Market Manipulations", by Nathan Russell, WKU, Spring 2007.
- "Quantum Calculus: A beginning of a closer look at one type of calculus", April Williams, WKU, Fall 2006.

• "Fractional Calculus", Nicole Zirkelbach, WKU, Fall 2006.

## INDEPENDENT STUDY WITH UNDERGRADUATE STUDENTS

- "Matrix Valued Functions," by Amber Wu, Gatton Academy of Mathematics and Science, WKU, Aug. 2024- present.
- Outcome: F. M. Atıcı and A. Wu, Matrix Valued Discrete Cosine and Sine Functions, (under review).
- "Picard's iteration on Discrete Fractional Calculus," by Asa Ashley, Gatton Academy of Science and Mathematics, WKU, Aug. 2023 Jan. 2025.
- <u>Outcome</u>: A. Ashley, F. M. Atıcı, and S. Chang, A Note on Constructing Sine and Cosine Functions in Discrete Fractional Calculus", (under review).
- "Eigenvalue problems in discrete fractional calculus," by Samuel Chang, Gatton Academy of Mathematics and Science, WKU, Jan. 2020 Apr.2021.
- Outcome: F. M. Atıcı, S. Chang, and J. Jonnalagadda, Grunwald-Letnikov Fractional Operators: From Past to Present, Fractional Differential Calculus, 11(2021), no.1, 147–159.
- "Discrete Ponzi Scheme Model," by William Bennett, Department of Economics, WKU, May 2019-April 2020.
- Outcome: F. M. Atıcı and W. Bennett, A study on discrete Ponzi Scheme model through Sturm-Liouville theory, *International Journal of Dynamical Systems and Differential Equations*, 11(2021), no.1, 147–159.
- "Implementation of Nelder-Mead Method for Discrete Fractional Models," by Sarah Pedersen, Gatton Academy of Mathematics and Science, WKU, Jan. 2019 May 2020.
- Outcome: F. M. Atıcı, N. Nguyen, K. Dadashova, S. Pedersen, and G. Koch, Pharmacokinetics and Pharmacodynamics Models of Tumor Growth and Anticancer Effects in Discrete Time, *Computational Mathematical Biophysics*, 8(2020), 114–125.
- "Discrete Fractional Gompertz Equation", by Michael Belcher, Gatton Academy of Mathematics and Science, WKU, Jan. 2014- May 2015.
- <u>Outcome</u>: F. M. Atıcı, M. Atıcı, M. Belcher, and D. Marshall, A New Approach for Modeling with Discrete Fractional Equations, *Fundamenta Informaticae*, 151(2017), 313–324. doi:10.3233/FI-2017-1494

# **AWARDS**

- 2025 Ogden College Faculty Award, Teaching.
- 2018 University Distinguished Professor.
- 2015 Women in Science and Engineering Award.
- 2011 University Faculty Award, Research/Creativity.
- 2011 Ogden College Faculty Award, Research/Creativity.
- 2006 Recognition of superior achievement in the field of mathematics, Pi Mu Epsilon, Kentucky Beta Chapter.

- 1995 Graduate award winner (Emeritus Faculty Fellowships) Department of Mathematics and Statistics, University of Nebraska at Lincoln.
- 1991-1995 Teaching Assistantship, Department of Mathematics and Statistics, University of Nebraska at Lincoln.
- 1990 Teaching Assistantship, Department of Mathematics, Ege University.
- 1989 Honorary BS degree, First Place in the Science College and in the Mathematics Department, Ege University.

### INTERNAL AND EXTERNAL GRANTS

#### External Grants

- "A Study on Drug Effects using Discrete Fractional Pharmacokinetics Pharmacodynamics model of Tumor Growth", KSEF-3904-RDE-020, July 2017- Dec 2018. (50,000.00 Dollars)
- "Parameter Estimations of Sigmoidal Models of Cancer", KSEF-2488-RDE-014, July 2011- June 2013. (60,000.00 Dollars)

### Internal Grants

- "Parameter Estimations of Sigmoidal Models of Cancer Using Fractional h-difference Operators," BISC(Bioinformatics and Information Science Center) Graduate Student Research Assistantship, August 2012-May 2013. (5,000.00 Dollars)
- "Sigmoidal Models of Tumor Growths: The Gompertz Model", BISC Graduate Student Research Assistantship, January 2011-May 2011. (2,750.00 Dollars)
- Summer Faculty Scholarship Award, May 2009- Sept. 2009. (6,000.00 Dollars)

#### Travel Grants

- Fractals and Fractional, Basel, Switzerland, Travel Grant for Editorial Board Members, (500 Dollars), April, 2025.
- NSF-CBMS Conference at the University of Alabama, Lodging (300 Dollars), May 2019.
- Ogden College of Science and Engineering WISE award Travel Grant (2000 Dollars), May 2016.
- AWM-NSF (Association of Women in Mathematics-NSF) Travel Grant (Awarded) (1270 Dollars), Feb 2014.
- AWM-NSF (Association of Women in Mathematics-NSF) Travel Grant, (543 Dollars), March 2007.
- Ogden College of Science Travel Fund, (500 Dollars), Jan. 2004.

# UNIVERSITY SERVICE

#### DEPARTMENTAL COMMITTEES

- Scholarship/Award Committee member, Aug. 2024 present.
- Sabbatical Committee, Aug. 2016 present.
- Student Organization Committee member, Aug. 2024 present.
- Student Organization Committee, Chair, Aug. 2022 Aug. 2024.
- Graduate Studies Committee, Aug. 2016 August 2024.
- Revision of Tenure-Promotion Document Committee, Jan. 2024 July 2024.
- Scholarship/Award Committee, Chair, Aug. 2019 Aug. 2022.
- The Calculus Textbook Committee, Spring 2022.
- Student Organization Committee, Aug. 2016 Aug. 2022.
- Scholarship/Award Committee, Aug. 2016 Aug. 2019.
- The Calculus Textbook Committee, Spring 2017.
- Graduate Studies Committee, Chair, Aug. 2013 Aug. 2016.
- Strategic Planning Committee, Aug. 2013 Aug 2016.
- The Calculus Textbook Committee, Spring 2014.
- Graduate Studies Committee, 2003 2013.
- Department Chair Hiring Committee, 2011 2012.
- Colloquium/Symposium Committee, 2006 2012.
- Scholarship/Award Committee, 2009 2013.
- Math 126- Math 227 Curriculum Committee, Chair, 2008 2009.
- Graduate Studies Committee, Chair, Spring 2009
- Advisory Committee, representing Associate Professors, 2006 2008.
- KYMAA Local Arrangements Committee, 2007 2008.
- The Graph Theory Tenure-Track Position Hiring Committee, Chair, 2006 2007.
- The PDE Tenure-Track Position Hiring Committee, Chair, 2006 2007.
- 109 Textbook Selection Committee, 2006 2007.
- Revision of Tenure and Promotion Document Committee, 2006 2007.
- Department Chair Hiring Committee, 2005 2006.
- Tenure-Track Position Hiring Committee 2005 2006.
- Department representative of "Doers and Deers", Spring 2006.
- AMS Local Arrangements Committee, 2003 2005
- Organizer of 24th Annual Mathematics Symposium at WKU, 2004.
- Co-Organizer of 23rd Annual Mathematics Symposium at WKU, 2003.

# College Committees

- Ogden College Goldwater Scholarships Committee, Dec. 2024– Jan. 2025.
- Ogden College Scholarships and Award Committee, Aug. 2019–Aug. 2022.
- Tenure-Promotion Committee, Fall 2019.
- Tenure-Promotion Committee, Spring 2016.
- Ogden College Graduate Curriculum Committee, Sept.2013 Aug.2016.
- Ogden College Conference and Seminar Committee, 2012 2013.
- Executive Committee, The Bio-informatics and Information Science Center, May 2006 present.
- Ogden/Ashland Scholarship Programs Committee, Chair, 2011 2013.
- Ogden College Award Committee, Spring 2012.

- Ogden College Undergraduate Curriculum Committee Aug. 2009 Aug. 2011.
- BISC Committee for Graduate Assistantship, Nov.2010 present.
- Ogden College Faculty Awards Committee, Spring 2010.
- Advisory Committee, department representative, 2007 2008.
- Consultation Committee, The Bioinformatics and Information Science Center, May 2006 2007.

#### University Committees

- University UDP Committee, 2018 present.
- FUSE Grants, reviewer, 2018-2020, 2022-2023, 2023-2024, 2024-2025.
- The Honorary Degree Committee, August 2018- August 2023.
- University Faculty Awards Committee, March-April, 2012–2014, 2019, 2020, 2022, 2023, 2024.
- RCAP Grants, reviewer, Spring 2019.
- UDP Selection Committee, March-April, 2019.
- Faculty co-advisor for the University WISE student organization, 2016–2022...
- "Recruiting Trip to India" meeting organized by the Graduate School, Department Representative, August, 2015.
- Graduate Council, May 2013 May 2015.
- Student Research Grant Committee (from the Graduate Council), Aug 2013 Aug 2014.
- Graduate Council Representative from Ogden College of Science and Engineering (alternative member), May 2008- May 2009.
- University Senate, May 2004- May 2006.
- The Faculty Welfare and Professional Responsibilities Committee (from the Senate), May 2004- May 2006.
- Chair of the Salary Survey subcommittee (from The Faculty Welfare and Professional Responsibilities Committee), May 2004- May 2006.

### PROFESSIONAL ACTIVITIES

- The International Advisory Committee member, 12th International Conference on Image Processing, Wavelets and Applications, Istanbul-Turkey, Nov. 3–5, 2025.
- Poster Judge at The 2025 KY INBRE Annual Research Conference, Feb 2025.
- Online Editorial Board Meeting of the journal "Fractals and Fractional', July 10, 2024.
- Judge at 41st Annual Mathematics Symposium at WKU, Feb. 25, 2022.
- Member of the Scientific Committee of the 4th International Conference on Mathematical and Related Sciences (ICMRS-2021), Oct. 22–24, 2021.
- Judge and Moderator at 2021 WKU Student Research Conference, Apr. 10, 2021.
- Judge at the MAA Student Poster Session at 2021 Joint Mathematics Meetings (JMM), Jan. 6–9, 2021.

- Member of the Scientific Committee of the Eighth International Eurasian Conference on Mathematical Sciences and Applications (IECMSA-2019), Baku-Azerbaijan, August 27-30, 2019.
- Member of the Scientific Committee of the 10th International Conference on non-integer order calculus and its applications, Bolystok University of Technology, Bolystok-Poland, 20-21 Sep., 2018.
- Member of the Scientific Committee of the International Conference on Mathematical Studies and Applications, University of Karaman, Turkey, 4-6 Oct, 2018.
- Founder and faculty advisor for the WKU American Mathematical Society (AMS) Student Chapter, March 2, 2015- present.
- Member of the Scientific Committee of the 2014 International Conference on Pure Mathematics Applied Mathematics, Venice, Italy, March 15-17, 2014.
- Member of the International Scientific Committee of the 1st WSEAS(World Scientific and Engineering Academy and Society) International Conference on Pure Mathematics (PUMA '14, Tenerife, Spain, January 10-12, 2014.
- Judge in the poster presentation sessions of "The 43rd Annual WKU Student Research Conference," March, 2013.
- Judge in the poster presentation sessions of "The 42nd Annual WKU Student Research Conference," March, 2012.
- Helper in "Wind Power" class at the event "Girls in Science Day", April 16, 2011.
- Judge in the paper presentation sessions of "The 41st Annual WKU Student Research Conference," March, 2011.
- Judge in the paper presentation sessions of "The 40th Annual WKU Student Research Conference," February 27, 2010.
- Organizer of the session "Time Scales: Theory and Applications," AMS Sectional Meeting at Miami University-Ohio, March 16-17, 2007.
- Organizer and Coordinator in the "Practical Problem Solving" event for High School students, The Kentucky Science Olympiad State Tournament, April 2006.
- One of the organizer of the special session in AMS sectional meeting which was at WKU on March 18-19, 2005.
- The Kentucky Science Olympiad State Tournament, Organizer of "Data Gathering Event", March 2004.
- Organizer of 24th Annual Mathematics Symposium at WKU, 2004.
- The Kentucky Science Olympiad State Tournament, Organizer of "Data Gathering Event", March 2003.
- 2002 Intel International Science and Engineering Fair, Grand Awards Judge for Mathematics.

### REVIEWER

- Reviewer for Mathematical Reviews (Jan 2005 present)
- External research reviewer, King Fahd University of Petroleum and Minerals (Dec 2008 present).

### EDITORIAL BOARD MEMBER

- Associate Editor of the Journal "The International Journal of Applied Mathematics Statistics" (IJAMAS). (Sept 2006-present)
- Associate Editor of the Journal "Advances in Difference Equations" (June 2015-July 2021.)
- Editor of the Journal: International Journal of Mathematics and Computation. (Sept 2009- present)
- Editor of the Journal: Journal of Black Sea Science and Engineering. (Feb 2011-present)
- Editor of the Journal: Fractional Differential Calculus. (March 2012- present)
- Editor of the Journal: Communication in Fractional Calculus. (Nov 2012-present)
- Editor of the Journal: International Journal of Mathematical Models and Methods in Applied Sciences. (Oct. 2013-present)
- Editor of the Journal: Progress in Fractional Differentiation and Applications. (Sep. 2014-present)
- Editor of the Journal: International Journal of Dynamic Systems and Differential Equations. (Oct. 2014- present)
- Review Editor of the Journal: Frontiers in Physics- Interdisciplinary Physics. (Aug. 2019- present)
- Editor of the Journal: Turkish Journal of Inequalities. (Nov 2019 present)
- Editor of the Journal: Fractal and Fractional (June 2021 present)
- Editor of the Journal: Differential Equations and Applications (May 2021 present)
- Editor of the Journal: Journal of Fractional Calculus and Applied Analysis (Oct. 2023 present)
- Editorial Advisory Committee: Open Mathematics (July, 2024 present)
- Editor of the Journal: Abstract and Applied Analysis (AAA). (Jan 2007-May 2017.)

# CONTRIBUTED TALKS AT CONFERENCES

- IN-KY-OH MAA Trisection Meeting, Northern Kentucky University, Cincinnati, KY, April 4–5, 2025.
- The 2025 KY INBRE Annual Research Conference, Jan. 31 Feb. 01, 2025, Louisville, KY, 2025.
- 2024 Annual Meeting of KYMAA, April 5-6, 2024, Eastern Kentucky University, Richmond, Kentucky.
- The 1st International Conference on Mathematics and Applications (Online), May 1-15, 2023. (**Key Note Speaker**)
- AMS 2022 Fall Southeastern Sectional Meeting, Chattanooga-TN, Oct 15-16, 2022. (Invited)
- 4th International Conference on Mathematical and Related Sciences (ICMRS-2021), Oct. 22–24, 2021.(**Key Note Speaker**)
- 40th Annual Mathematics Symposium at WKU, Feb. 20, 2021, Western Kentucky University, Bowling Green, Kentucky.
- 2021 Virtual Joint Mathematics Meetings (JMM), January 6–9, 2021. (Invited)

- International Symposium on Bioinformatics and Ecology Education and Research (e-BEER-XIII), Nov 13–15, 2020. (Paper Presentation)
- AMS Sectional Meeting (Fall Southeastern Virtual Sectional Meeting), October 10-11, 2020. (Invited)
- The Virtual Conference on Recent Advances in Differential and Difference Equations and their Applications, June 9 11, 2020. (Invited)
- International Symposium on Bioinformatics and Ecology Education and Research, Oct 4-6, 2019, La Crosse, Wisconsin. (Poster and **Invited** Paper Presentation)
- NSF-CBMS conference on Mathematical Molecular Bioscience and Biophysics, May 13-17, 2019, The University of Alabama, Tuscaloosa, AL. (Poster and **Invited** Paper Presentation)
- 2019 Annual Meeting of KYMAA, March 29-30, 2019 Centre College, Danville, Kentucky.
- 34th Annual Mathematics Symposium at WKU, Nov. 9-10, 2018, Western Kentucky University, Bowling Green, Kentucky.
- 2018 Annual Meeting of KYMAA, April 6-7, 2018, Western Kentucky University, Bowling Green, Kentucky.
- AMS Sectional Meeting (Spring Central Sectional Meeting), March 16-17, 2018 Ohio State University at Columbus-Ohio.(Invited)
- The 19th International Symposium on Bioinformatics and Ecology Education and Research, Oct 6-8, 2017, Normal, Illinois. (Poster Presentation)
- KBRIN Bioinformatics, August 25th, 2017, Shaker Village, Lexington, KY.(Invited)
- UT-KBIRN Bioinformatics Summit 2017, April 20-22, 2017, Montgomery Bell State Park, TN. (Poster Presentation)
- The Wolfram Technology Conference, Oct. 18-21, 2016, Urbana-Champaign, Illinois
- The 40th SIAM Southeastern Atlantic Section Conference (SIAM-SEAS), March 11-13, 2016, Athens, Georgia, (Invited)
- The 8th Annual Symposium on Biomathematics and Ecology Education and Research, Oct 9-11, 2015, Normal, Illinois.
- The 8th Annual Symposium on Biomathematics and Ecology Education and Research, Oct 9-11, 2015, Normal, Illinois. (Poster Presentation)
- International Conference on Applied Analysis and Mathematical Modeling, June 8-12, 2015, Istanbul, Turkey.
- The Seventh International Conference on Dynamic Systems and Applications, May 27-30, 2015, Atlanta, Georgia. (Invited)
- The 34th Southeastern-Atlantic Regional Conference on Differential Equations, Oct. 11-12, 2014, Memphis, Tennessee.
- 10th Kentucky Innovation and Entrepreneurship 2014 Conference, Louisville-KY, September 5th, 2014. (Poster Presentation)
- UT-KBIRN Bioinformatics Summit 2014, April 11-13, 2014, Cadiz, Kentucky. (Poster Presentation)
- 2014 Annual Meeting of KYMAA, March 28-29 2014, Murray State University, Murray, Kentucky.

- 9th Kentucky Innovation and Entrepreneurship 2013 Conference, Lexington-KY, August 29th, 2013. (Poster Presentation)
- New Trends in Differential and Difference Equations, Chattanooga, TN, March 15-17, 2013. (Invited)
- International Symposium on Biomathematics and Ecology Research and Education, St. Louis-Missouri, Nov 10-11, 2012.
- International Workshop on Dynamic Systems, Ankara-Turkey, June 26-28th, 2012. (Invited)
- 8th Kentucky Innovation and Entrepreneurship 2012 Conference, Louisville-KY, June 1st, 2012. (Poster Presentation)
- AMS Sectional Meeting at University of Nebraska, Lincoln-Nebraska, Oct. 14-16, 2011. (Invited)
- Second International Symposium on Computing in Science and Engineering, Kusadasi, Izmir-Turkey, June 1-4, 2011.
- The 6th International Conference: 2010 Dynamical Systems and Applications, Antalya-Turkey, July 10-14, 2010. (**Key Note Speaker**)
- AMS Sectional Meeting at Baylor University, Waco-Texas, Oct. 16-18, 2009. (Invited)
- International Symposium on Biomathematics and Ecology Research and Education, Izmir Turkey, June 13-17, 2009.
- 14th International Conference on Difference Equations and Applications, Istanbul-Turkey, July 21-25, 2008. (Invited)
- The 27th Southeastern-Atlantic Regional Conference on Differential Equations, Oct 2007, Murray, Kentucky.
- International Conference: 2007-Dynamic Systems and Applications, July 2007, Kusadasi-Izmir, Turkey.
- AMS Sectional Meeting at Miami University-Ohio, March 16-17, 2007. (Session Organizer and Presenter)
- 2006 Annual Meeting of KYMAA, March 2006, Centre College, Danville, Kentucky.
- The 25th Southeastern-Atlantic Regional Conference on Differential Equations, Oct 2005, Dayton, Ohio.
- Spring Southeastern Sectional Meeting of AMS at WKU, Bowling Green, KY, March 18-19, 2005. (Session Organizer)
- AMS National Meeting, Jan 2005, Atlanta, Georgia. (Invited)
- International Conference: 2004-Dynamic Systems and Applications, July 2004, Antalya-Turkey.
- AMS National Meeting, Jan 2004, Phoenix- Arizona. (Invited)
- AMS Section Meeting, Bloomington-Indiana, April 2003.
- Workshop on Time Scales, University of Dayton, Dayton-Ohio, September 2002. (Session Organizer and Presenter)
- International Conference on Dynamic Systems and Applications, Atlanta-Georgia, May 1999.
- XI. National Mathematics Symposium, Isparta Turkey, September 1998.
- Fourth International Conference on Difference Equations and Applications, Poznan
- Poland, August 1998.

- International Conference Functional Differential-Difference Equations and Applications, Antalya Turkey, August 1997.
- Rocky Mountain Mathematics Consortium Summer Conference Difference Equations and Their Applications, University of Wyoming, Laramie-Wyoming, July 1997.
- 24. Midwest Differential Equations Conference, University of Nebraska-Lincoln, Nebraska, October 1995.
- 23. Midwest Differential Equations Conference, University of Oklahoma, Oklahoma, October 1994.

### LIST OF PUBLICATIONS

- 67) F. M. Atıcı, S. Chang, and J. Jonnalagadda, Mittag-Leffler functions in discrete time, *Fractal Fract.* 7(3), (2023), 254.
- **66)** F. M. Atıcı, J. Henderson, J. Lyons, and J. Neugebauer, Special Issue: Honoring Prof. Paul Eloe, *Differential Equations and Applications*, Vol. 14, 2(2022).
- **65)** F. M. Atıcı and J. Jonnalagadda, Convexity in fractional h-discrete calculus, *Differential Equations and Applications*, Vol. 14, 2(2022), 313–324.
- **64)** F. M. Atıcı and J. Jonnalagadda, An eigenvalue problem in fractional h-discrete calculus, *Fractional Calculus and Applied Analysis*, 25 (2022), no. 2, 630647. doi.org/10.1007/s13540-022-00028-0.
- **63)** Guo-Cheng Wu; Thabet Abdeljawad; Ferhan Atıcı; Carlos Lizama, Special Issue on Discrete Fractional Calculus with Applications: Overview and Some New Directions, Fractals-Complex Geometry Patterns and Scaling in Nature and Society, Vol. 19, 08(2022), DOI10.1142/S0218348X21020035.
- **62)** F. M. Atıcı, S. Chang, and J. Jonnalagadda, Grunwald-Letnikov Fractional Operators: From Past to Present, *Fractional Differential Calculus*, 11(2021), no.1, 147–159.
- **61)** F. M. Atıcı and W. Bennett, A study on discrete Ponzi Scheme model through Sturm-Liouville theory, *International Journal of Dynamical Systems and Differential Equations*, 11(2021), Nos. 3/4, 227–240.
- **60)** F. M. Atıcı, N. Nguyen, K. Dadashova, S. Pedersen, and G. Koch, Pharmacokinetics and Pharmacodynamics Models of Tumor Growth and Anticancer Effects in Discrete Time, *Computational Mathematical Biophysics*, 8(2020), 114–125.
- **59)** F. M. Atıcı, K. Dadashova, and J. Jonnalagadda, Linear fractional order *h*-difference equations, Special Issue honoring Professor Johnny Henderson, *International Journal of Difference Equations*, Volume 15, Number 2, pp. 281–300 (2020).
- **58)** F. M. Atıcı and Tilekbek Zhoroev, Controllability and Observability of time-invariant linear nabla fractional systems, *Fractional Differential Calculus*, 10(2020), no.1, 19–39.

- **57)** F. M. Atıcı, M. Atıcı, N. Nguyen, Tilekbek Zhoroev, and Gilbert Koch, A study on discrete and discrete fractional pharmacokinetics-pharmacodynamics models for tumor growth and anti-cancer effects, *Computational Mathematical Biophysics*, 7(2019), 10–24.
- **56)** F. M. Atıcı and D. M. Nguyen, Rank conditions for controllability of discrete fractional time-invariant linear systems, *Journal of Difference Equations and Applications*, 25(2019), Issue 6, Special Issue: Fractional Calculus, Guest Edited by Allan Peterson, 869–881. doi:10.1080/10236198. 2019.1596265.
- **55)** F. M. Atıcı and Hatice Yaldiz, Refinements on the discrete Hermite-Hadamard inequality, *Arab. J. Math. (Springer)* 7 (2018), no. 3, 175–182.
- **54)** F. M. Atıcı, M. Atıcı, M. Belcher, and D. Marshall, A New Approach for Modeling with Discrete Fractional Equations, *Fundamenta Informaticae*, 151(2017), 313–324. doi:10.3233/FI-2017-1494
- **53)** F. M. Atıcı, Gang Cheng, and Alex Lebedinsky, A Nonlinear Stochastic Growth Model on Discrete Time Domains, *J. Difference Equations and Applications*, 22(2016), issue 11, 1732–1746. doi: 10.1080/10236198.2016.1237509
- **52)** A. Arslan and F. M. Atıcı, Discrete Hermite-Hadamard Inequality and Its Applications, *Applicable Analysis and Discrete Mathematics*, 10(2016), 366–377. doi:10.2298/AADM160617013A
- **51)** F. M. Atıcı and Hatice Yaldiz, Convex Functions on Discrete Time Domains, Canadian Mathematical Bulletin, **59** (2) (2016), 225–233.
- **50)** F. M. Atıcı, M. Atıcı, W. M. Hrushesky, and N. Nguyen, Modeling Tumor Growth with Basic Functions of Fractional Calculus, *Progress in Fractional Differentiation and Applications*, **1**(2015), No.4, 1–13.
- **49)** F. Merdivenci Atıcı and Meltem Uyanık, Analysis of Discrete Fractional Operators, *Applicable Analysis and Discrete Mathematics*, Vol. 9, (2015), 139–149.
- **48)** F. Merdivenci Atıcı and Daniel C. Biles, Further Development of Stochastic Calculus on Time Scales, *PanAmerican Mathematical Journal*, 25(2015), No.2, 13–24.
- **47)** F. Merdivenci Atıcı and P. W. Eloe, Linear Forward Fractional Difference Equations, *Communication in Applied Analysis*, Special issue honoring Prof. Allan Peterson, 19(2015), 31–42.
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