# Curriculum Vitae — Mustafa Avci


# Mustafa Avci

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## Degrees

- PhD Mathematics, Dicle University--2011
- MSc Mathematics, Dicle University--2007
- BSc Mathematics, Dicle University--2005

## Professional Experience

- Lecturer (Term), Department of Finance and Management Science, Edwards School of Business, University of Saskatchewan (2021/7 - 2022/6).
- Assistant Professor (Term), Department of Mathematics, Trent University (2020/8 - 2021/7).
- Instructor (Term), Department of Science and Technology, Northwestern Polytechnic (2019/8 - 2020/4)
- Instructor (Sessional), Department of Finance and Management Science, Edwards School of Business, University of Saskatchewan (2019/5 - 2019/8).
- Postdoctoral Fellow, Department of Mathematics, Morgan State University (2014/9 - 2015/10).
- Associate Professor, Department of Economics and Administrative Sciences, Batman University (2013/3 - 2018/10).
- Instructor, Economics and Administrative Sciences Programmes, Dicle University (2009/1 - 2013/3).

## RESEARCH

## Research Interests

- Analysis of variable exponent PDEs (Deterministic & Stochastic)
- Variable Lebesgue spaces
- Stochastic processes

## Research Specialization Keywords

Variable Exponent Lebesgue Spaces, Variational Methods, Nonlinear Analysis, Measure Theory, Operator Theory, PDEs, Stochastic PDEs, Stochastic Processes and Applications.

# Research In Progress

- Generalized volatility models with state-dependent variable exponent drift and diffusion
- PDEs in variable Lebesgue and Sobolev spaces

# Research Funding (Awards & Grants)

- External Funding Proposal: Applied for NSERC-Discovery Grants (Individual) Program 2025 Website
- Athabasca University Academic Research Fund-Publication Award (2025)
- Athabasca University Research Incentive Account (Grant No: 140111RIA, 2023-2026)
- International Postdoctoral Research Fellowship Program. Scientific and Technological Research Council of Turkey (TUBITAK) (Grant No: 1059B191400450, 12 months, 2014-2015). Website
- Dicle University Scientific Project Research Management (DUPAB) Grant (2007 - 2009)
  for the Research Project: The Solutions of Parabolic and Elliptic Equations with Standard and Nonstandard Growth Conditions in the Variable Exponent Lebesgue-Sobolev Spaces.

# Book & Book Chapters

- **Nontrivial weak solutions of a quasilinear equation involving p-Laplace operator** (as Author), in Advances in Mathematics and Computer Science Vol.2, 2019. ISBN 978-93-89562-00-2 (Print) ISBN 978-93-89562-01-9 (eBook). DOI: 10.9734/bpi/amacs/v2. Website
- **A Closer Look at Boundary Value Problems** (as Editor), 2020. Nova Science Publishers, Inc. ISBN: 978-1-53617-857-9. Website

# Conference Proceedings

- **A new solution of some weighted problems for Riemann-Liouville and Weyl operators** (with S. Ograş, R. Mashiyev) (2009), Proceedings of the 6th International ISAAC Congress, Ankara, Turkey, 13 – 18 August 2007. Website

# Papers (click to see the lists)

## Published / Accepted

1. **Existence and multiplicity of solutions for a discrete fourth-order boundary value problem** (with M. Boroun, S. Heidarkhani), *Journal of Nonlinear Evolution Equations and Applications*. Accepted (2025).
2. **Three Solutions for a double-phase variable-exponent Kirchhoff problem**, *Mathematics* 13(15) (2025), 2462. Website
3. **Singular p(x)-Laplacian equation with application to boundary layer theory**, *Applicable Analysis* 104(13) (2025), 2546–2566. Website

4. **On a p(x)–Kirchhoff-type equation with singular and superlinear nonlinearities**, *Differential Equations and Dynamical Systems*, 2024. Website
5. **Existence results for a class of singular p(x)–Kirchhoff equations**, *Complex Variables and Elliptic Equations* 70(7) (2025), 1222–1253. Website
6. **On an anisotropic p(·)-Laplace equation with variable singular and sublinear nonlinearities**, *Communications in Analysis and Mechanics* 16(3) (2024), 554–577. Website
7. **On a p(x)-Kirchhoff problem with variable singular and sublinear exponents**, *Taiwanese Journal of Mathematics* 29(2) (2025), 379–402. Website
8. **Multiple solutions for a class of p(x)–Kirchhoff-type equations** (with S. Heidarkhani, A. Ghobadi), *Applied Mathematics E-Notes* 22 (2022), 160–168.
9. **Solutions of Ginzburg–Landau-type equations involving variable exponent**, *Thai Journal of Mathematics* 20(1) (2022), 369–384.
10. **Critical points approaches to a nonlocal elliptic problem driven by p(x)–biharmonic operator** (with S. Heidarkhani, S. Moradi), *Georgian Mathematical Journal* 29(1) (2021), 55–69.
11. **A Class of nonlocal elliptic equations in Orlicz–Sobolev spaces** (with B. Suer, V. Turut), *Journal of Abstract and Computational Mathematics* 6(2) (2021), 16–29.
12. **On a nonlocal problem with indefinite weights in Orlicz–Sobolev space** (with N. T. Chung), *Communications of the Korean Mathematical Society* 35(2) (2020), 517–532.
13. **A variational approach to the existence of infinitely many solutions for difference equations** (with M. K. Moghadam, S. Tersian), *Journal of New Research in Mathematics* 5(22) (2020), 99–110.
14. **A topological result for a class of anisotropic difference equations**, *Annals of the University of Craiova – Mathematics and Computer Science Series* 46(2) (2019), 328–343.
15. **On some classes of nonlocal problems in Musielak–Sobolev spaces**, *Southeast Asian Bulletin of Mathematics* 43 (2019), 791–814.
16. **Positive ground state solutions to a nonlocal singular elliptic problem**, *Canadian Journal of Applied Mathematics* 1(1) (2019), 1–14.
17. **On a nonlocal problem involving a nonstandard nonhomogeneous differential operator** (with B. Suer), *Journal of Elliptic and Parabolic Equations* 5(1) (2019), 47–67.
18. **On a Robin problem in Orlicz–Sobolev spaces** (with K. Suslu), *TWMS Journal of Applied and Engineering Mathematics* 9(2) (2019), 246–256.
19. **Solutions to p(x)–Laplace type equations via nonvariational techniques**, *Opuscula Mathematica* 38(3) (2018), 291–305.
20. **Multivalued elliptic operators with nonstandard growth** (with A. Pankov), *Advances in Nonlinear Analysis* 7(1) (2018), 35–48.
21. **Existence results to a nonlinear –Laplacian difference equation** (with M. K. Moghadam), *Journal of Difference Equations and Applications* 23(10) (2017), 1652–1669.
22. **On a nonlocal Neumann problem in Orlicz–Sobolev spaces**, *Journal of Nonlinear Functional Analysis* 2017 (2017), Article ID 42, 1–11.
23. **Existence results for anisotropic discrete boundary value problems**, *Electronic Journal of Differential Equations* 148 (2016),

1–11.

24. **On a nonlocal problem involving the generalized anisotropic p(·)-Laplace operator**, *Annals of the University of Craiova – Mathematics and Computer Science Series* 43(2) (2016), 259–272.
25. **Solutions to a system of –Kirchhoff discrete boundary value problems**, *Nonlinear Studies* 23(4) (2016), 665–674.
26. **Existence of solutions for nonlocal problems in Sobolev–Orlicz spaces via Monotone method** (with R. Mashiyev, N. T. Chung), *Electronic Journal of Mathematical Analysis and Applications* 4(1) (2016), 63–73.
27. **Positive periodic solutions of nonlinear differential equations system with nonstandard growth** (with R. Ayazoglu), *Applied Mathematics Letters* 43 (2015), 5–9.
28. **Nontrivial solutions of discrete nonlinear equations with variable exponent** (with A. Pankov), *Journal of Mathematical Analysis and Applications* 431 (2015), 22–33.
29. **Nontrivial weak solutions of a quasilinear equation involving p-Laplace operator**, *British Journal of Mathematics & Computer Science* 6(2) (2015), 112–118.
30. **Existence of solutions for fourth-order elliptic equations of Kirchhoff type** (with F. Wang, Y. An), *Journal of Mathematical Analysis and Applications* 409(1) (2014), 140–146.
31. **Existence of three solutions for a quasilinear elliptic equation involving the –Laplacian** (with R. Mashiyev), *Sarajevo Journal of Mathematics* 10(23) (2014), 1–13.
32. **Existence and uniqueness of solutions of a nonlocal problem involving the –Laplacian** (with R. Mashiyev), *Annals of the University of Craiova – Mathematics and Computer Science Series* 41(1) (2014), 30–37.
33. **Existence results for a nonlocal problem involving the p-Laplacian**, *Universal Journal of Applied Mathematics* 2(3) (2014), 153–159.
34. **Ni–Serrin type equations arising from capillarity phenomena with non-standard growth**, *Boundary Value Problems* (2013), Article 55, 1–18.
35. **Existence and multiplicity of solutions for Dirichlet problems involving the –Laplacian**, *Electronic Journal of Differential Equations* 14 (2013), 1–99.
36. **Existence of solutions for an elliptic equation with nonstandard growth** (with R. Mashiyev, B. Cekic), *International Journal of Pure and Applied Mathematics* 86(1) (2013), 131–139.
37. **Solutions of a nonlocal elliptic problem involving –Kirchhoff-type equation**, *Applied Mathematics* 3(2) (2013), 56–60.
38. **Existence and uniqueness of solutions for a quasilinear elliptic equation involving p-Laplacian** (with R. Mashiyev), *International Journal of Differential Equations and Applications* 12(2) (2013), 95–102.
39. **Existence results for a nonlocal problem involving the p(x)-Laplacian**, *Pure and Applied Mathematics Journal* 2(1) (2013), 20–27.
40. **Solutions of nonlocal ($p_1(x)$, $p_2(x)$)-Laplacian equations** (with R. Mashiyev), *International Journal of Partial Differential Equations*, Vol. 2013, Article ID 364251, 7 pages.
41. **Existence of weak solutions for a nonlocal problem involving the –Laplace operator**, *Universal Journal of Applied Mathematics* 1(3) (2013), 192–197.
42. **Solutions of an anisotropic nonlocal problem involving variable exponent** (with R. Mashiyev, B. Cekic), *Advances in*

*Nonlinear Analysis* 2(3) (2013), 325–338.

43. **On an elliptic system of p(x)–Kirchhoff-type under Neumann boundary condition** (with Z. Yucedag, R. Mashiyev), *Mathematical Modelling and Analysis* 17(2) (2012), 161–170.
44. **p-estimates of vector fields and applications to magnetostatics problems** (with B. Cekic, A. V. Kalinin, R. Mashiyev), *Journal of Mathematical Analysis and Applications* 389(2) (2012), 838–851.
45. **Existence and multiplicity of weak solutions for nonuniformly elliptic equations with nonstandard growth** (with R. Mashiyev, B. Cekic, Z. Yucedag), *Complex Variables and Elliptic Equations* 57(5) (2012), 579–595.
46. **Existence and multiplicity of solutions of the p(x)-Kirchhoff type equation via genus theory** (with B. Cekic, R. Mashiyev), *Mathematical Methods in the Applied Sciences* 34(14) (2011), 1751–1759.
47. **The Nehari manifold approach for a Dirichlet problem involving the p(x)–Laplacian** (with R. Mashiyev, S. Ogras, Z. Yucedag), *Journal of the Korean Mathematical Society* 47(4) (2010), 845–860.
48. **Existence of solutions for a class of elliptic systems in $\mathbb{R}^N$ involving the (p, q)-Laplacian** (with S. Ogras, R. Mashiyev, Z. Yucedag), *Journal of Inequalities and Applications*, Article 612938 (2008).

## Submitted

1. **Existence results for the Cox–Ingersoll–Ross model with variable exponent diffusion.** Under review.
2. **On the geometric Brownian motion with state-dependent variable exponent diffusion term.** Under review.
3. **Monotone operator methods for a class of nonlocal multi-phase variable exponent problems.** Under review.
4. **Existence and uniqueness results for a singular elliptic problem governed by an anisotropic (p(·), q(·))-Kirchhoff-type operator.** Under review.
5. **Anisotropic Singular Equation with (p(·), q(·))-Laplacian Operator and Hardy-type Potential.** Under review.
6. **A topological result for a singular double phase variable exponent problem.** Under review.
7. **Variational and nonvariational solutions for double phase variable exponent problems.** Under review.
8. **Nehari manifold approach for a singular multi-phase variable exponent problem.** Under review.
9. **Anisotropic Variable exponent Kirchhoff-type equation with double singularity** (with B. Cekic, Z. Yucedag). Under review.
10. **Singular Kirchhoff–Ginzburg–Landau-type equation with variable Exponent** (with B. Cekic, Z. Yucedag). Under review.
11. **On a p(x)-Kirchhoff Equation with double singularity exponent** (with B. Cekic, Z. Yucedag). Under review.
12. **Existence results for a class of double phase singular Kirchhoff-type equations with nonstandard growth** (with A. Razani). Under review.

## In preparation

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# Presentations & Talks

## List

1. **A generalized stochastic volatility model**, Alberta Mathematics Dialogue, University of Calgary, May 1-2, 2025, Calgary, Canada.
2. **Enhancing mathematical learning with interactive content and adaptive online assessments** (with A. Beltaos, J. Greenwood-Lee), Alberta Mathematics Dialogue, University of Calgary, May 1-2, 2025, Calgary, Canada.
3. **The regularization method for multivalued elliptic PDEs with variable exponent**, International Conference on Applied Mathematics, University of Craiova, Craiova, Romania, 29–31 October 2020.
4. **Variational approach for analysis of PDEs**, Mathematics Colloquium, Grande Prairie Regional College, Science Department, February 2020, Grande Prairie, Canada.
5. **Existence and uniqueness results for a Dirichlet problem in Orlicz–Sobolev spaces**, International Conference on Mathematics and Mathematics Education (ICMME-2017), 11–13 May 2017, Şanlıurfa, Turkey.
6. **Nontrivial solutions for a Dirichlet problem in Orlicz–Sobolev spaces**, ICMME-2017, 11–13 May 2017, Şanlıurfa, Turkey.
7. **Solutions of an anisotropic Kirchhoff problem involving variable exponent**, ICMME-2017, 11–13 May 2017, Şanlıurfa, Turkey.
8. **Solutions of Kirchhoff problem in anisotropic variable exponent spaces**, ICMME-2017, 11–13 May 2017, Şanlıurfa, Turkey.
9. **On some elliptic problems in Orlicz–Sobolev spaces**, International Health and Natural Sciences Conference (INHSC 2017), 19–21 October 2017, Antalya, Turkey.
10. **Solutions to a nonlocal elliptic problem in Orlicz–Sobolev spaces**, INHSC 2017, 19–21 October 2017, Antalya, Turkey.
11. **Solutions of generalized anisotropic problems in variable exponent spaces**, INHSC 2017, 19–21 October 2017, Antalya, Turkey.
12. **A system of anisotropic discrete boundary value problems**, International Engineering, Science and Education Conference, 1–3 December 2016, Diyarbakır, Turkey.
13. **Existence of three solutions to a nonlinear difference equation involving p(k)-Laplace operator**, International Engineering, Science and Education Conference, 1–3 December 2016, Diyarbakır, Turkey.
14. **Variable Lebesgue spaces and variational approach**, Morgan State University, Department of Mathematics, Mathematics Colloquium, November 2014, Baltimore, U.S.A.
15. **Existence and uniqueness of an elliptic equation with p(x)-Laplace operator**, XXVI. National Mathematics Symposium, 4–7 Sept, 2013, Dicle University, Diyarbakır, Turkey.
16. **Power-type weighted Hardy and Hankel operators in variable exponent Morrey space**, “Operators in General Morrey-Type Spaces and Applications” (Dedicated to the 70th Birthday of Prof. Victor I. Burenkov), Ahi Evran University, Kırşehir, Turkey, 20–27 May 2011.
17. **Maximal and Riesz operators in weighted variable exponent Morrey space**, same event, Ahi Evran University, Kırşehir, Turkey,

20–27 May 2011.

18. **Existence of solutions for nonuniformly elliptic equations of p(x)-Laplacian type**, 3rd International Conference on Differential Equations and Applications, Lviv, Ukraine, 3–6 November 2010.
19. **A new solution of some weighted problems for the Riemann–Liouville and Weyl operators**, Further Progress in Analysis, Proceedings of the 6th International ISAAC Congress, Ankara, Turkey, 13–18 August 2007, pp. 321–326 (published 2009).
20. **Existence of solutions for a p(x)-Laplacian in ℝ(N)**, Workshop on Differential Equations and Applications, Pamukkale University, Denizli, Turkey, 18–20 April 2008.

# TEACHING

## AU Teaching and Course Coordination

- MATH 260 Calculus for Social Sciences and Economics (2022 — p)
- MATH 366 Complex Variables I (2022 — p)
- MATH 370 Applied Real Analysis (2022 — p)
- MATH 376 Ordinary Differential Equations (2025 — p)
- MATH 492 Special Study I (2022 — p)
- MATH 493 Special Study II (2022 — p)
- MATH 495 Mathematics Projects I (2022 — p)
- MATH 496 Mathematics Projects II (2022 — p)
- MATH 216 Computer-Oriented Approach to Statistics (2022 — 2025).

## AU Tutoring

- MATH 376 Ordinary Differential Equations (2025 — p)
- MATH 216 Computer-Oriented Approach to Statistics (2022— 2025)
- MATH 365 Multivariable Calculus (2021—2022)
- MGSC 301 Statistics for Business and Economics I (2020 — 2022)
- MGSC 312 Statistics for Business and Economics II (2020 — 202)

## AU Course Development and Revisions

- MATH 415 Introduction to Measure and Integration (In Development, 2025 — p)
- MATH 426 Introduction to Stochastic Processes (In Development, 2025 — p)
- MATH 437 Introduction to Stochastic Calculus (In Development, 2025 — p)
- MATH 325 Linear Programming — Development (In Production) (2024)
- MATH 216 Computer-Oriented Approach to Statistics — Major Revision (2024)
- MATH 260 Calculus for Social Sciences and Economics — Minor Revision (2024)

## University of Saskatchewan Courses

- COMM 121 Business Mathematics (2021/6 — 2022/7)
- COMM 207 Business Statistics II (2019/Summer)
- COMM 104 Business Statistics I (2019/Sipring)

## Trent University Courses

- MATH 1005H Applied Calculus (Lecture + Seminar) (2020-21/Fall & Winter & Spring)
- MATH 1110H Calculus I (Lecture + Seminar) (2020/Fall)
- MATH 2120H Calculus IV (Lecture + Seminar) (2021/Winter)
- MATH 4120H Mathematical Modelling I (Lecture + Lab) (2021/Winter)
- AMOD 5220H Mathematical Aspects of Modeling (Lecture + Lab) (2021/Spring)

## Durham College Courses

- MATH 1185 Mathematics for Technology I (2021 — 2022)
- MATH 2150 Mathematics for Technology II (2020 — 2021)

## Northwestern Polytechnic Courses

- ST 1510 Introduction to Applied Statistics I (Lecture + Lab) (2019/Fall & Winter)
- ST 2520 Introduction to Applied Statistics II (Lecture + Lab) (2020/Winter)
- MA 1130 Elementary Calculus I (Lecture + Seminar) (2019/Fall)
- MA 1600 Higher Arithmetic (Lecture + Seminar) (2020/Winter)

## Morgan State University Courses (USA)

- MATH 241 Calculus I (2015/Spring)

## Batman University Courses (Turkey) (2013 — 2018)

- 05010303 Business Mathematics
- 05050407 Statistics
- 05010105 Calculus I
- 05010205 Calculus II
- 05010601 Research Methods and Techniques
- 02030306 Differential Equations
- 02030405 Engineering Mathematics
- 02010405 Applied Mathematics for Engineers
- 02040401 Applied Mathematics for Engineers: Numerical Methods
- 02010407 Numerical Analysis
- 01030301 Advanced Analysis I
- 01030401 Advanced Analysis II
- 01030302 Introduction to Topology
- 01030606 Vector Analysis
- 01030701 Functional Analysis I
- 01030809 Functional Analysis II
- 60070101 Functional Analysis and Applications I

- 60070111 Functional Analysis and Applications II
- 60070102 Advanced Real Analysis I
- 60070112 Advanced Real Analysis II
- 60070128 Variational Analysis I
- 60070135 Variational Analysis II
- 600701100 Specialization Course
- 600701101 Seminar
- 61090119 Numerical Methods
- 61090128 Business Statistics
- 61090201 Research Methods

## Dicle University (Turkey) (2009 — 2013)

- Business Mathematics
- Business Statistics
- Engineering Mathematics

## SUPERVISION

## AU Undergraduate Student Supervision

- Rizwan Hamidi - MATH 492 Special Study I. (2025/3 - )
  Project Title: Advanced Engineering Mathematics.
- Pascale Boudreau - MATH 495 Mathematics Projects I. (2025/1 - )
  Project Title: Application of the Fixed-point Theorems to the Solutions of Differential Equations.
- Amina Anna Mahamane Ousmane - MATH 495 Mathematics Projects I. (2025/5 - 2025/6)
  Project Title: Investigating the Effectiveness of Optimization Methods : Full-Batch Gradient Descent vs. Stochastic Gradient Descent for Training Regression Models on Housing Market Data.
- John Didiodato - MATH 493 Special Study II. (2024/1 - 2024/5)
  Project Title: Mathematical Finance.
- Andre Leke Umambo - MATH 495 Mathematics Projects I. (2023/7 - 2023/11)
  Project Title: The Queuing System.
- Alexander van Dijk - MATH 493 Special Study II. (2022/9 - 2022/12)
  Project Title: Introduction to Mathematical Finance.
- Mahin Khan - MATH 492 Special Study I. (2024/7 - 2024/12)
  Project Title: Measure Theory and Lebesgue Integration.

## Theses Supervised

- Berat Süer - On Solutions of the Ginzburg-Landau-type Equation in Orlicz-Sobolev Spaces, M.Sc. Mathematics (Co-supervisor), Batman University, 2020.
- Kenan Süslü - On Solutions of Nonlocal Equations in Orlicz-Sobolev Spaces, M.Sc. Mathematics, Batman University, 2017.
- İdris Teymur - Coefficient Bounds for Subclasses of M-Fold Symmetric Bi-Univalent Functions, M.Sc. Mathematics (Co-supervisor), Batman University, 2017.
- Diyadin Keskin - Approximation by Simple Functions in L^p Lebesgue Spaces, M.Sc. Mathematics (project-based, non-thesis), Batman University, 2016.

- İbrahim Eren Atalay - Convex Functions and Inequalities in L^p Lebesgue Spaces, M.Sc. Mathematics (project-based, non-thesis), Batman University, 2016.
- Mehmet Nuri Tüzün, Bounded Linear Operators and Riesz Representation Theorem in L^p Lebesgue Spaces, M.Sc. Mathematics (project-based, non-thesis), Batman University, 2016.
- Mustafa Yılmaz, Approximation by Continuous Functions in L^p Lebesgue Spaces, M.Sc. Mathematics (project-based, non-thesis), Batman University, 2016.

# SERVICE & CONTRIBUTIONS

## AU Standing Committee Memberships

- FST Faculty Council - (2022 - )
- FST Undergraduate Program Council - (2025 - 2028)
- Academic & Professional Development Fund Committee (APDF) - (2025 - 2028)
- Academic Research Fund Committee (ARF) - (2024 - 2027)
- GFC Academic Planning, Policy, and Standards Committee (APPSC) - (2024 - 2027)
- GFC Academic Research Committee (ARC)- (2024 - 2027)
- Academic & Professional Development Fund Committee - Replacement term - (2023 - 2025)

## AU Ad Hoc Committee/Group Memberships

- Research Information Management System (RIMS) Advisory Group - (2023 - 2024)
- Tri-Agency Undergraduate Student Research Award Selection Committee (USRA) - (2025 - )
- FGS Faculty Council Working Group: Research Software for Graduate Students and Faculty - (2025 - )
- ARC CFI-JELF Expression of Interest Review Subcommittee (2025)
- Applied Math Program Advisory Committee - (2025 - )
- Mobius Ladership Group - (2024 - )
- Hiring Committee service-Assistant Professor - Applied Math.
- Hiring Committee service-Tutor - MATH 216
- Hiring Committee service-Tutor - MATH 266
- Hiring Committee service-Tutor - MATH 309
- Hiring Committee service-Tutor - MATH 376
- Hiring Committee service-Tutor - MATH 476
- Hiring Committee service-Tutor - MATH 480
- Hiring Committee service-Tutor - MATH 481

# PROFESSIONAL ACTIVITIES

## Service to Discipline

- Canadian Mathematical Society, Member (2023/12 - )

## Editorial Activities

- Editorial Board Member - Advances in Differential Equations and Control Processes (2025 - )
- Editorial Board Member - Pure and Applied Mathematics Journal (2025 - )
- Topical Advisory Panel Member - Axioms (2023 - )
- Editorial Board Member - International Journal of Scientific and Innovative Mathematical Research (2018 - )
- Editorial Board Member - American Journal of Applied Mathematics and Statistics (2015 - )
- Editorial Board Member - Journal of Mathematical Sciences and Applications (2015 - )
- Editorial Board Member - International Journal of Partial Differential Equations and Applications (2015 - )
- Editorial Board Member - Universal Journal of Applied Mathematics (2015 - )
- Guest editor for the Special Issue: Advances in Stochastic Differential Equations: Theory, Computation and Applications in *Axioms* (2025/7 - 2026/12)
- Guest editor for the Special Issue: Differential Equations and Stochastic Processes: Trends and Challenges in *Mathematics* (2023/10 - 2024/11)
- Co-Guest editor for the Special Issue: Nonlinear and Variational Analysis and their Applications in *Journal of Function Spaces* (2020/1 - 2020/12)

## Event Administration

- Co-organizer - Organized Session: Recent Developments in Stochastic Analysis, PDEs and Related Topics.
  Alberta Mathematics Dialogue (AMD), University of Calgary, May 1-2, 2025. Website
- Co-organizer - Organized Session: Innovative Strategies in Online Learning Environments for Mathematics Education.
  Alberta Mathematics Dialogue (AMD), University of Calgary, May 1-2, 2025.

## Conference Commitee Activities

- Scientific Board Member, 4th International Engineering, Science and Education Conference (INESEC), November 6-8, 2019, Dicle University, Turkey.
- Scientific Board Member, 3rd International Engineering and Natural Sciences conference, Nov 14-17, 2018, Dicle University, Turkey.
- Scientific Board Member, 2nd International Natural and Health Science Conference (INHSC), October 19-21, 2017, Antalya, Turkey.
- Scientific Board Member, 1st International Engineering, Science and Education Conference (INESEC), December 1-3, 2016, Dicle University, Turkey.
- Session Chair, 1st International Engineering, Science and Education Conference (INESEC), December 1-3, 2016, Dicle University, Turkey.

## Reviewer for Journals

▸ **List**

## CONTINUED PROFESSIONAL DEVELOPMENT

- Higher Education Teaching Certificate — Online Course by Harvard University, Derek Bok Center for Teaching and Learning, Oct–Dec 2020.
- Orientation for Distance Education — The Centre for Professional and Part-time Learning, Durham College, 2020.
- Valuing Diversity and Supporting Inclusivity — Trent University, 2020.
- How to Deliver Experiential Learning in a Remote Course — CTL, Trent University, 2020.
- Learning How to Increase Learner Engagement — LinkedIn Learning, 2020.
- Flipping the Classroom — Lynda.com, 2020.
- Teaching Online: Synchronous Classes — Lynda.com, 2020.
- How to Engage your Students in a Virtual Environment — McGraw-Hill, 2020.
- Developing Your Course Syllabus — The Gwenna Moss Centre for Teaching and Learning, University of Saskatchewan, 2020.
- Remote Teaching Essentials: Constructive Alignment — GMCTL, University of Saskatchewan, 2020.
- Teach Adult Learners in Higher Education — Lynda.com, 2020.
- Educational Technology for Student Success — Lynda.com, 2020.
- Communication in the 21st Century Classroom — Lynda.com, 2020.
- Learning Microsoft Teams for Education — Lynda.com, 2020.
- Foundations of Learning Management Systems (LMS) — Lynda.com, 2020.
- Pedagogical Courses (credit, taken during PhD), Dicle University, 2011.
- Certificate of Pedagogy Formation for Teachers, Dicle University, 2001.

## TECH SKILLS

- Teaching in a variety of formats: face-to-face, online, hybrid/blended.
- Lectures, seminars and labs delivered synchronously and asynchronously.
- LMS experience: Möbius, Blackboard, Canvas, Moodle, Google Classroom, Brightspace by D2L.
- Software: MS Office, MS Teams, MATLAB, SPSS.
- Programming: Python (competent).

## RESEARCHER WEB PROFILES

- Website: https://avcixm.github.io/academicprofile/
- ORCID: **0000-0002-6001-627X**
- Google Scholar: https://scholar.google.com.tr/citations?user=kzgJh58AAAAJ&hl=tr

- ResearchGate: https://www.researchgate.net/profile/Mustafa_Avci
- AU Profile: Dr. Mustafa Avci | Faculty of Science and Technology | Athabasca University

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