Mustafa Avci, PhD Athabasca University
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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

Research Funding (Awards & Grants)

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

Presentations & Talks

▶ **List**

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

(kept verbatim as in your template)

- Higher Education Teaching Certificate—Online Course by Harvard University Derek Bok Center for Teaching and Learning, Oct–Dec 2020.
- Orientation for Distance Education—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—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.
- … (remaining items unchanged; you can keep editing them in this builder if you prefer)

TECH SKILLS

(kept verbatim as in your template)

- Teaching in face-to-face, online, hybrid/blended formats
- Remote seminars & labs (sync/async)
- LMS: Möbius, Blackboard, Canvas, Moodle, Google Classroom, Brightspace by D2L
- MS Office, MS Teams, MATLAB, SPSS; Python (competent)

RESEARCHER WEB PROFILES

(kept verbatim as in your template)

- ORCID: 0000-0002-6001-627X
- https://avcixm.github.io/academicprofile/
- https://scholar.google.com.tr/citations?user=kzgJh58AAAAJ&hl=tr
- https://www.researchgate.net/profile/Mustafa_Avci
- AU profile page

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