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Date of Birth : January 1, 1992
Place of Birth : Ankara, TURKEY
Citizenship : Turkish (TC)
- RESEARCH INTERESTS Discontinuous Galerkin Methods, Uncertainty Quantification, PDE-Constrained Optimization, Numerical Linear Algebra, Adaptive Finite Element Methods
- EDUCATION Middle East Technical University, Ankara, TURKEY
Ph.D., Scientific Computing Program, Institute of Applied Mathematics,
September 2017 - June 2023
 - Dissertation Title: *"Stochastic Discontinuous Galerkin Methods for PDE-Based Models with Random Coefficients"*
 - Advisor: Assoc. Prof. Dr. Hamdullah YücelB.S., Department of Mathematics, September 2011 - June 2015
- EMPLOYMENT Middle East Technical University, Ankara, TURKEY
December 2017- Research Assistant
Institute of Applied Mathematics
September 2014-December 2016 Student Assistant
Department of Mathematics
- LANGUAGE SKILLS Turkish (native), English (fluent), German (beginner)
- COMPUTER SKILLS Matlab
Working Knowledge of C, C++, Python
- PROJECTS
 - Turkish Scientific and Technical Research Council (TÜBİTAK)
 - TÜBİTAK 1001 (Researcher)
 - Institution : Scientific Computing Program, Institute of Applied Mathematics, Middle East Technical University, Ankara, TURKEY
 - Year : August 01 2019 – August 01 2021

- Title : Numerical Studies for Petrol and Gas Reservoir Problems
- Project No : TUBITAK 1001 - 119F022
- Scientific Research Projects, METU
 - BAP, Career Development Project (Researcher)
 - Institution : Scientific Computing Program, Institute of Applied Mathematics, Middle East Technical University, Ankara, TURKEY
 - Year : May 29 2018 – May 29 2019
 - Title : Numerical Studies of Korteweg-de Vries Equation with Random Input Data
 - Project No : YOP-705-2018-2820

PUBLICATIONS

Journal Articles Published/Accepted:

- **P. Çiloğlu**, and H. Yücel, *Stochastic Discontinuous Galerkin Methods for Robust Deterministic Control of Convection Diffusion Equations with Uncertain Coefficients*, Advances in Computational Mathematics, 49, 16, 2023, doi: 10.1007/s10444-023-10015-5.
- **P. Çiloğlu**, and H. Yücel, *Stochastic Discontinuous Galerkin Methods with Low-Rank Solvers for Convection Diffusion Equations*, Applied Numerical Mathematics 172, 157-185, 2022, doi: 10.1016/j.apnum.2021.10.007.

Journal Articles in Review:

- **P. Çiloğlu**, and H. Yücel, *An Adaptive Algorithm Based on Stochastic Discontinuous Galerkin for Convection Dominated Equations with Random Data*, Submitted 2023.
- İ. Gürcan, K. Üstün, **P. Çiloğlu**, and G. Cinbiş, *Learning Lie Groups Acting on the Manifolds Generated by Linear Differential Equations*, Submitted 2023.

SCIENTIFIC MEETINGS

Research Talks:

2023

- *Adaptive Discontinuous Galerkin Methods for PDEs with Random Data*, Workshop: Numerical Analysis of Stochastic Partial Differential Equations (NASPDE) - Eurandom, Eindhoven, Netherlands, May 15-17, 2023.

2022

- *Stochastic Discontinuous Galerkin Methods for Robust Deterministic Control of Convection Diffusion Equations with Uncertain Coefficients*, Hybrid: SIAM Conference on Uncertainty Quantification (UQ22), Atlanta, Georgia, U.S., April 12-15, 2022.

- *Solving Optimal Control Problems Containing Uncertain Coefficients with Stochastic Discontinuous Galerkin Methods*, 17th Copper Mountain Conference On Iterative Methods (Virtual), April 4-8, 2022.
- *Stochastic Discontinuous Galerkin Methods for Robust Deterministic Optimal Control*, The SFB 1294 Spring School 2022, Schorfheide (Brandenburg), Germany, March 21-25, 2022.

2021

- *Stochastic Discontinuous Galerkin Methods with Low-Rank Solvers for Convection Diffusion Equations*, Chemnitz FE Symposium 2021, Chemnitz, Germany, September 6-8, 2021.

2019

- *Discontinuous Galerkin Methods for Convection Diffusion Equation with Random Coefficients*, BEYOND 2019: Computational Science and Engineering Conference, Ankara, Turkey, September 9-11, 2019.

2018

- *Discontinuous Galerkin Methods for Unsteady Convection Diffusion Equation with Random Coefficients*, BEYOND: Workshop on Computational Science and Engineering, Ankara, Turkey, October 20-21, 2018.
- *Unsteady Convection Diffusion Equation with Random Input Data*, Chemnitz FE Symposium 2018, Chemnitz, Germany, September 24-26, 2018.

Participation

- Summer School - Uncertainty, Adaptivity, and Machine Learning, Augsburg, Germany, September 12-14, 2022.
- Chemnitz Finite Element Symposium 2020, Chemnitz, Germany, September 14-17, 2020 (Online).
- Annual Meeting of the German Mathematical Society (DMV Jahrestagung 2020), Chemnitz, Germany, September 14-17, 2020 (Online).
- Third Graduate Summer School of Association for Turkish Women in Maths, Middle East Technical University, Ankara, Turkey, June 18-27, 2018.

TEACHING EXPERIENCE

Middle East Technical University, Ankara, TURKEY

Teaching Assistant

- IAM 561 Introduction to Scientific Computing I, Fall 2019, Fall 2022

- IAM 562 Introduction to Scientific Computing II, Spring 2019, Spring 2023
- IAM 572 Finite Element Methods for Partial Differential Equations: Theory and Applications, Spring 2018, Spring 2019, Spring 2020
- IAM 566 Numerical Optimization, Fall 2017, Fall 2018, Fall 2020, Fall 2021
- MATH 118 Calculus II, Spring 2018
- MATH 402 Introduction to Optimization, Spring 2021
- MATH 119 Calculus with Analytic Geometry, Spring 2022

MEMBERSHIPS

Academic Memberships

- Society for Industrial and Applied Mathematics (SIAM)
- The Institute of Mathematics and its Applications (IMA) (Associate Member (AMIMA))

Student Club Memberships

- METU SIAM Student Chapter (Vice President)

REFERENCES

References available upon request.

CV compiled on September 29, 2023