

Cansu EVCİN

Personal Information

Address	Middle East Technical University (METU) Institute of Applied Mathematics (IAM) 06800 Ankara, Turkey	Office Phone	+90 (312) 210 5610
Date of Birth	27 th November 1986	Email	cbilgir@metu.edu.tr
Nationality	Turkish		

Education

2013-	Ph.D. in Scientific Computing Institute of Applied Mathematics(IAM), Middle East Technical University (METU), Ankara, Turkey Theme: <i>Optimal Control in Fluid Flow Problems with POD Applications to FEM Solutions</i> Supervisor: Prof. Dr. Ömür Uğur	(GPU: 3.88/4.00)
2010-2013	M.Sc. in Scientific Computing Institute of Applied Mathematics(IAM), Middle East Technical University (METU), Ankara, Turkey Theme: <i>Analysis of Threshold Dynamics of Epidemic Models in a Periodic Environment</i> Supervisor: Prof. Dr. Ömür Uğur	(GPU: 3.88/4.00)
2004-2009	B.S. in Mathematics Ege University, İzmir, Turkey	(GPU: 3.67/4.00)

Positions

Aug 2010 - Present	Institute of Applied Mathematics (IAM), Middle East Technical University (METU), Ankara, Turkey <i>Scientific Computing Programme</i> Research Assistant
Dec 2009 - Aug 2010	Department of Mathematics, Namık Kemal University, Tekirdag, Turkey <i>Applied Mathematics</i> Research Assistant

Computer Skills

Python
FEniCS
dolfin-adjoint
MATLAB

Language Skills

Turkish (Native)
English (Fluent)
German (Beginner)

Grants

Sep 2010 - Present - T.R. Ministry of Development
Scientific HR Development Program (OYP)

Feb 2013 - Jan 2017 - The Scientific and Technological Council of Turkey
PhD Scholarship 2210-A

Sep 2010 - June 2012 - The Scientific and Technological Council of Turkey
Graduate Scholarship 2211-E

Teaching Experience

Teaching Assistant

- *An Introduction to Scientific Computing I*
- *An Introduction to Scientific Computing II*
- *Numerical Optimization*
- *The Finite Element Methods for Partial Differential Equations: Theory and Applications*
- *Advanced Calculus and Integration*

Projects

- Control Problems and Applications for Navier-Stokes Equations (BAP-07-05-2016-004), 2016.
- Optimal Control and Parameter Estimation Methods for Advection- and Reaction-Diffusion Systems (BAP-07-05-2015-009), 2015.

Research Area of Interest

- PDE-Constrained Optimal Control Problems
- Model Order Reduction Techniques for PDEs
- Finite Element Methods
- MHD Flows and Heat Transfer
- Navier-Stokes Equations

Publications

- Cansu Evcin, Ömür Uğur, Münevver Tezer-Sezgin, Determining the Optimal Parameters for MHD Flow and Heat Transfer with Variable Viscosity and Hall Effect, *Computers and Mathematics with Applications*, 2018, DOI: 10.1016/j.camwa.2018.06.027

Presentations in Scientific Events

- 6th European Seminar on Computing (ESCO), Pilsen, Czech Republic, 3-8 June 2018.
The title of the speech: *Optimal Control for the MHD Flow and Heat Transfer with Variable Viscosity in a Square Duct*
- 7th International Conference on Advanced COmputational Methods in ENgineering (ACOMEN), Ghent, Belgium, 18-22 September 2017.
The title of the speech: *Model Order Reduction on Control Problems of Navier-Stokes Equations*
- European Conference on Numerical Mathematics and Advanced Applications (ENUMATH), Ankara, Turkey, 14-18 September 2015.
The title of the speech: *"Nonlinear Model Order Reduction in PDE Constrained Optimal Control Problems"*.
- 12th International Workshop on Dynamical Systems and Applications, Ankara, Turkey, 12-15 August 2013.
The title of the speech: *"Threshold Dynamics of Avian-Human Influenza in a Periodic Environment"* .
- 26th European Conference on Operational Research (EURO), Rome, Italy, 1-4 June 2013.
The title of the speech: *"Analysis of Threshold Dynamics of Epidemic Models in a Periodic Environment"*.

Attendance to Scientific Events

- 4th Workshop of Association for Turkish Women in Maths, Ankara, Turkey, 28-29 April 2017.
- FEniCS'15, London, United Kingdom, 29 June-1 July 2015.
- 1. Ulusal Karmaşık Dinamik Sistemler ve Uygulamaları Çalıştayı, Ankara, Türkiye, 12-13 Ekim 2012.