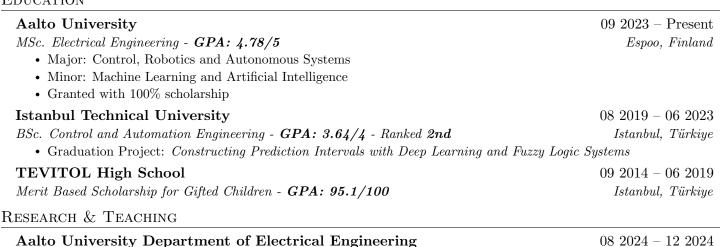
Batuhan Avci

Motivated to explore new frontiers in machine learning, robotics and control. Aiming to make significant contributions to these dynamic fields by involving in the cutting-edge research projects.

Born in Türkiye, May 26th, 2000

- **?** Välimerenkatu 5C 131, 00180 Helsinki, Finland
- **└**+358 417236901
- ⊠ batuhan.avci@aalto.fi
- ⊠ baavci13@gmail.com
- in linkedin.com/in/batuhanaavci
- **Q** github.com/batuhanaavci
- 🗲 Google Scholar Profile

Education



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Aalto	University	Department	of Electrical	Engineerin

- Worked for ELEC-E8101: Digital and Optimal Control course taught by Prof. Dominik Baumann
- Responsibilities: handling exercise sessions, proposing exam/quiz questions and grading

Aalto University Department of Computer Science

Research Assistant

- Worked in Computational Systems Biology research group led by Prof. Harri Lähdesmäki
- Researched continuous-time reinforcement learning methods
- Completed a project named Continuous Time Reinforcement Learning Using True System Dynamics

\mathbf{ITU}	Artificial	Intelligence	and	Intelligent	Systems	(AI^2S)	Laboratory	
D	1 E-11							

Research Fellow

- Funded by Turkish Academy of Sciences
- Oriented my focus of interest into uncertainty quantification and its integration to deep learning and fuzzy sets and systems
- Focused on convolutional neural networks (such as R-CNN, YOLO) and their applications of face recognition and tracking tasks

PUBLICATIONS

- 1. H. E. Dursun, E. C. Güven, B. Avcı, and T. Kumbasar, "Recognizing and Tracking Person of Interest: A Real-Time Efficient Deep Learning Based Method for Quadcopters," in 10th International Conference on Recent Advances in Space Technologies (RAST), Istanbul, Turkey, 2023. Code 🗹
- 2. B. Avci, A. Beke, and T. Kumbasar, "Towards Reliable Uncertainty Quantification and High Precision with General Type-2 Fuzzy Systems," in Proceedings of the IEEE International Conference on Fuzzy Systems, Songdo Incheon, Korea, 2023.



Helsinki, Finland

 $06\ 2024 - 08\ 2024$ Helsinki, Finland

 $09\ 2020 - 06\ 2023$ Istanbul, Türkiye

EXPERIENCE ASELSAN Inc. Control Systems Design Intern • Worked on Texas Instruments Robotics Kit

• Mainly dealt with the implementation of PID controllers on embedded robotics systems

BAYKAR Technologies

 $Artificial\ Intelligence\ Intern$

• Worked in a project named Localization of Unmanned Aerial Vehicles (UAVs) in GNSS Denied Environments

 $07\ 2022 - 09\ 2022$

 $07\ 2021 - 09\ 2021$

Istanbul, Türkiye

Ankara, Türkiye

- Implemented a particle filter based visual odometry framework
- Completed a time series prediction task on UAV sensor data

TECHNICAL SKILLS

Languages: Python, MATLAB, R, C++ Skills: TensorFlow 2, PyTorch, Linux, ROS2, OpenAI Gym, Git, Research Interests: Machine Learning, Deep Learning, Computer Vision, Control Theory, Robotics

VOLUNTEERING & COMPETITIONS

FIRST Robotics Competition	USA and Türkiye			
• Mentor of the FRC Team 9436	$07\ 2023 - \mathrm{Present}$			
 * Assisting teams in overcoming technical challenges and strategic planning * Conducting workshops and training sessions to improve team skills 				
Volunteer as Referee	$03\ 2020 - 05\ 2023$			
 * Supported event management and various organizational tasks * Advocated for STEM education through community outreach and engagement 				
Team Member at Inanc Mechatronics Club	$10\ 2014 - 06\ 2017$			
 Competed in the FIRST Lego League and FIRST Robotics Competition at international Participated in the World Championship in St. Louis, USA, showcasing technical a Honored with the Excellence in Engineering Award for innovative solutions. Achieved 2nd place in the national tournament, highlighting team success in robotics eng CERTIFICATIONS 	and teamwork skills			
• Inzva Applied AI Study Group Participation	10 2023			
 Mathworks Excellence in Innovation Projects Participation II 	10 2023			
• Google TensorFlow Developer Certificate				
• Inzva Machine Learning Bootcamp Participation				
SCHOLARSHIPS				
• Turkish Education Foundation Western Europe Postgraduate Studies Grant	t 🖸 06 2023			
• Aalto University Scholarship 🗹				
• Turkish Academy of Sciences Research Scholarship	09 2022			
• Turkish Education Foundation Merit Based Scholarship for Gifted Students	☑ 08 2014 - 06 2019			
Dependence				

References

Available upon request.