Fırat Öncel

Montréal, QC +1 (438) 467 95 10

	+1 (438) 467 95 10	
	firat.oncel@mail.concordia.ca, firatoncel422@gn	nail.com
EDUCATION	PhD, Computer Science Concordia University, September 2023 - Ongoing Concentration: Audio Processing, Large Language Supervisors: Asst. Prof. Dr. Cem Subakan & Asst	
	<i>PhD</i> , Computer Engineering Istanbul Technical University, July 2022 - August Concentration: Computer Vision, Deep Learning	2023 (Not Completed)
	Master of Science, Computer Engineering Istanbul Technical University, September 2019 - Ju Concentration: Computer Vision, Deep Learning Thesis Title: UGQE: Uncertainty Guided Query E Supervisor: Prof. Dr. Gozde Unal GPA: 3.94/4.00	
	Bachelor of Science, Computer Engineering Istanbul Technical University, September 2016 - A Concentration: Computer Vision Graduation Project: Building Detection with Deep Supervisor: Prof. Dr. Gozde Unal GPA: 3.41/4.00	
	Bachelor of Science, Mechanical Engineering Istanbul Technical University, September 2013 - A	ugust 2016 (Not Completed)
	High School Kadikoy Anatolian High School, September 2008 - GPA: 85.87/100	June 2013
COMPUTER SKILLS	Languages & Software: Python, Numpy, PyTorch, PyQT5, Verilog.	JAX, C++, C, MATLAB, LATEX,
LANGUAGES	Turkish: Native English: Advanced French: Intermediate German: Elementary	
EXPERIENCE	Research Assistant Concordia University, Conversational AI Lab	August 2023 - Present
	Research and Teaching Assistant	December 2019 - August 2023

Istanbul Technical University, Computer Vision and Artificial Intelligence Laboratory

Graduate Student Researcher September 2019 - December 2019 Istanbul Technical University, Computer Vision and Artificial Intelligence Laboratory

Undergraduate Student Researcher September 2018 - August 2019 Istanbul Technical University, Computer Vision and Artificial Intelligence Laboratory

Intern

July 2018 - August 2018 Istanbul Technical University, Computer Vision and Artificial Intelligence Laboratory • Implemented machine learning algorithms using MATLAB.

Intern

June 2018 - July 2018 Istanbul Technical University, Embedded System Design Laboratory Institute

• Implemented image processing algorithms on FPGA using Verilog.

Volunteer IT Assistant

FIBA Eurobasket 2017, Istanbul

August 2017 - September 2017

• Helped to install and manage IT infrastructure.

Volunteer IT Assistant

September 2014 - October 2014

- FIBA World Championship for Women 2014, Istanbul. • Helped to install and manage IT infrastructure.
- PUBLICATIONS Oncel, F., Bethge, M., Ermis, B., Ravanelli, M., Subakan, C., Yıldız, Ç. (2024). Adaptation Odyssey in LLMs: Why Does Additional Pretraining Sometimes Fail to Improve? The 2024 Conference on Empirical Methods in Natural Language Process-

ing (EMNLP 2024). Oncel, F., Aygün, M., Baykal, G., Unal, G. (2022). UGQE: Uncertainty Guided Query Expansion. Pattern Recognition and Artificial Intelligence. ICPRAI 2022. Bozkurt M., Oncel F., Gürpinar C., Kose H., Unal G., 2022. Facial Expressions Detection of Children with Hearing Impairment, 2022 30th Signal Processing and Communications Applications Conference (SIU), 1-4.

ADMINISTRATIVE

Faculty ABET Accreditation Commission Member February 2022 - August 2023 SERVICES Istanbul Technical University Faculty of Informatics

• Helped to renew ABET accreditation of our faculty.

COMPLETED	Deep Learning, Graph Theory, Artificial Intelligence (MSc Level)	Fall 2019
COURSEWORK	Deep Reinforcement Learning (PhD Level)	Spring 2020
	Causal Inference, Data Compression, Prob. Theo. & Stoch. Proc. (MSc L	evel) Fall 2020
	Theory of Computation (MSc Level)	Spring 2021
	Applied Kalman Filtering, Discrete Optimization (MSc Level)	Fall 2022
	3D Vision (PhD Level)	Spring 2023
	Parallel Computing for GPUs using CUDA (MSc Level)	Spring 2023

Concordia University

Machine Learning (BSc Level)	Winter 2024, Fall 2024
Introduction to Deep Learning (BSc Level)	Fall 2024

Istanbul Technical University

Deep Learning (MSc Level)	Fall 2021, Fall 2022
Multimedia Computing (BSc Level)	Spring 2020, 2022, 2023
Linear Algebra and its Applications (BSc Level)	Fall 2020
Linear Algebra (BSc Level)	Fall 2020, 2021
Computer Architecture (BSc Level)	Spring 2021, 2022, 2023
Discrete Event Simulation (BSc Level)	Spring 2023
Signals and Systems (BSc Level)	Spring 2021
Analysis of Algorithms II (BSc Level)	Spring 2020
Analysis of Algorithms I (BSc Level)	Fall 2020
System Programming (BSc Level)	Fall 2021, Fall 2022
Microcomputer Laboratory (BSc Level)	Fall 2022

SCHOLARSHIPS 2210-National Scholarship for MSc Students, in 2019, TUBITAK (The Scientific and Technological Research Council of Turkey)