

Ömer Veysel Çağatan

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Education	Koç University , Istanbul BSc, Computer Engineering Tracks: Artificial Intelligence, Data Analytics	Sep 2020–Jun 2024
Professional Experience	Research Engineer, KUIS AI Working on large-scale preference learning, RLHF, and LLM fine-tuning research.	Apr 2025–Present
	NLP Intern, FineSci Technology supervised by Assoc. Prof. Alptekin Kupcu Built Turkish sentiment analysis models; created large datasets and conducted cross-lingual benchmarking.	Jul 2022–Oct 2022
Research Experience	Undergraduate Research, Koç University <ul style="list-style-type: none">• Data-Efficient Reinforcement Learning – supervised by Asst. Prof. Barış Akgün• Robustness of Self-Supervised Models – supervised by M. Emre Gürsoy• Novel Vision Self-Supervised Learning Objective• Non-Contrastive Sentence Embeddings – with Prof. Deniz Yuret and Prof. Alper Erdoğan	Nov 2022–Mar 2025
Teaching	Guest Lecture – COMP 442 (NLP) TA – ENGR200, Probability Tutor – MATH204, Differential Equations	May 2024 Oct 2022–Jan 2023 Feb 2022–Jun 2022
Awards	Vehbi Koç Scholar Anatolian Scholarship Program	
Skills	Programming: Python, C, C++, Java, LaTeX Deep Learning: PyTorch, Flax/JAX	
Academic Service	Reviewer: ICLR 2025, ACML 2023	
Publications	O. V. Çağatan, Ö. F. Tal, and M. E. Gürsoy. <i>Adversarial Robustness of Discriminative Self-Supervised Learning in Vision</i> . arXiv preprint arXiv:2503.06361, submitted to the IEEE/CVF International Conference on Computer Vision, 2025 (ICCV '25).	
	O. V. Çağatan and B. Akgun. <i>Uncovering RL Integration in SSL Loss: Objective-Specific Implications for Data-Efficient RL</i> . Submitted to the Reinforcement Learning Conference, 2025 (RLC '25).	

Accepted to the NeurIPS 2024 Workshop: Self-Supervised Learning - Theory and Practice (NeurIPS SSL Workshop '24).

MMTEB Team, O. V. Cagatan. *MMTEB: Massive Multilingual Text Embedding Benchmark*. To appear in the Thirteenth International Conference on Learning Representations, 2025 (ICLR '25).

O. V. Cagatan. *SigCLR: Sigmoid Contrastive Learning of Visual Representations*. To appear in the NeurIPS 2024 Workshop: Self-Supervised Learning - Theory and Practice (NeurIPS SSL Workshop '24).

O. V. Cagatan. *UNSEE: Unsupervised Non-contrastive Sentence Embeddings*. To appear in the 18th Conference of the European Chapter of the Association for Computational Linguistics (EACL '24).

O. V. Cagatan. *ToddlerBERTa: Exploiting BabyBERTa for Grammar Learning and Language Understanding*. To appear in the CoNLL–CMCL 2023 Shared Task: The BabyLM Challenge (CONLL'23).

O. V. Cagatan and B. Akgun. *BarlowRL: Barlow Twins for Data-Efficient Reinforcement Learning*. To appear in the Asian Conference on Machine Learning, 2023 (ACML '23).