

# OGUZHAN AKCIN

Personal Website  $\diamond$  [oguzhanakcin@utexas.edu](mailto:oguzhanakcin@utexas.edu)  $\diamond$  [LinkedIn](#)  $\diamond$  [Google Scholar](#)

## EDUCATION

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### University of Texas at Austin

*August 2021 - Present*

MS/PhD in Electrical and Computer Engineering

GPA: 3.90

Advised by Sandeep Chinchali

### Bogazici University, Turkey

*September 2016 - July 2021*

BS in Electrical and Electronics Engineering

GPA: 3.99 (Class rank 2nd)

Minor in Economics GPA: 3.87

## PUBLICATIONS AND RESEARCH INTERESTS

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**Research Interests:** My research is primarily focused in **Robotics**, particularly in the areas of **Decentralized Data Collection** and **Multi-Agent Systems**.

[Fleet Active Learning: A Submodular Maximization Approach](#)

*CoRL, 2023*

**Oguzhan Akcin**, Orhan Unuvar, Onat Ure, Sandeep Chinchali

*We created a general framework for applying active learning methods to distributed robot fleets and showed its ability to achieve the same optimality bound as centralized approach.*

[Decentralized Data Collection for Robotic Fleet Learning: A Game-Theoretic Approach](#) *CoRL, 2022*

**Oguzhan Akcin**, Po-han Li, Shubhankar Agarwal, Sandeep Chinchali

*We model the data collection problem from a fleet of robots as a potential game between  $N$ -robots and a decentralized method that achieves an optimal solution.*

[A Control Theoretic Approach to Infrastructure-Centric Blockchain Tokenomics](#) *Under Submission*

**Oguzhan Akcin**, Robert P. Streit, Benjamin Oommen, Sriram Vishwanath, Sandeep Chinchali

*We model infrastructure token economies as a dynamical systems and utilize modern control methods to optimize the overall decentralized network's performance.*

[Decentralized Sharing and Valuation of Fleet Robotic Data](#)

*CoRL, 2021*

Yuchong Geng, Dongyue Zhang, Po-han Li, **Oguzhan Akcin**, Ao Tang, Sandeep Chinchali

*We propose a decentralized learning framework with a decentralized voting and feedback mechanism to prioritize the data that is of high value to other robots.*

## WORK EXPERIENCE

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### Deep Learning Intern at Intenseye

*June-October 2020*

Python, PyTorch, MATLAB

*Istanbul, Turkey*

### Summer Intern at P.I. Works

*August-September 2019*

Python

*Istanbul, Turkey*

### Summer Intern at IBM

*July 2019*

Python, PyTorch

*Istanbul, Turkey*

## SKILLS

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**Programming Languages:** MATLAB, Python (with PyTorch & Tensorflow), Julia, C++

**Libraries&Toolkits** PyTorch, Keras, pandas, CVXPY, NumPy, Git,  $\LaTeX$