

Jason Chatzitheodorou

CONTACT

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EDUCATION

Columbia University, New York, USA

2023 - Present

PhD in Operations Research

Advisor: [Eric Balkanski](#)

National Technical University of Athens (NTUA), Athens, Greece

2017 - 2023

BSc & MSc in Electrical and Computer Engineering

Grade: 9.28/10 (best 5%)

Thesis: [Online learning augmented algorithms for facility location problems](#)

Advisor: [Dimitris Fotakis](#)

RESEARCH INTERESTS

I am interested in designing robust machine learning algorithms for decision-making under uncertainty. Specifically, my work on online clustering aims to produce stable clusters under evolving data. Another direction I have worked on is leveraging ML predictions to improve the performance of online algorithms for facility location, while also maintaining robustness in the case of biased predictions. More recently, I am working on the detection of anomalies from real-time cybersecurity logs, focusing on quickly handling a sheer volume of logs and their temporal correlations. The problems I am interested in are clustering, matching and submodular maximization.

PROGRAMMING SKILLS

Programming Languages (Excellent):

Python, C++

Programming Languages (Familiar with):

C, SQL, SML, Prolog

Tools (Familiar with):

scikit-learn, cvxpy, Gurobi, Cuda, OpenMPI

WORK IN PROGRESS

Anomaly Detection in Cybersecurity Logs

with [Eric Balkanski](#), [Hyrum Anderson](#), [Cherlin Zhu](#)

Average-Case Analysis of Greedy for MaxCover

with [Eric Balkanski](#), [Flore Sentenac](#)

Online Metric Matching with General Arrivals

with [Eric Balkanski](#), [Vasilis Gkatzelis](#), [Josh Ascher](#)

PUBLICATIONS

Cost-Free Fairness in Online Correlation Clustering

ALT 2025 (International Conference on Algorithmic Learning Theory) [talk](#)

with [Eric Balkanski](#), [Andreas Maggiori](#)

PROJECTS

Llama Compiler

Implementation of compiler for functional language Llama (like OCaml) written in C++

Llama Syntax Highlighting

Implementation of a VS Code extension that does syntax highlighting for language Llama

AVR Navigation System

Wireless navigation system for devices with limited resources written in C

AWARDS

Benjamin Miller Fellowship

2023

Awarded by Columbia University for the 2023 Fall Semester

Great Moment of Education

2017

Awarded by Eurobank for highest grade in high school in the national exams in Greece

RELEVANT COURSEWORK

Columbia: Optimization I & II, Scheduling Algorithms, Analysis of Algorithms in OR

NTUA: Neural Networks and Intelligent Systems, Artificial Intelligence, Compilers, Advanced Algorithms

TEACHING ASSISTANT

Columbia: Foundations of Optimization (Fall 2024, Fall 2025), Probability for Engineers (Spring 2024)

LANGUAGES

Greek (native), English (C2)