

Charikleia (Chara) Podimata

Class of 1942 Career Development Professor

Assistant Professor of OR/Stat at MIT

podimata@mit.edu

<https://www.charapodimata.com>

RESEARCH INTERESTS	trustworthy & human-aware ML, decision making under uncertainty, AI policy-making, algorithmic fairness, online learning, topics at the interface of CS, Economics & ML																								
EMPLOYMENT	<table><tr><td>Assistant Professor OR/Stat, MIT Sloan</td><td>Jun. 2023 - present</td></tr><tr><td>Lead Researcher, Archimedes/Athena RC</td><td>Jun. 2023 - present</td></tr><tr><td>Postdoctoral Fellow, UC Berkeley, CA</td><td>Aug. 2022 - Jul. 2023</td></tr></table>	Assistant Professor OR/Stat, MIT Sloan	Jun. 2023 - present	Lead Researcher , Archimedes/Athena RC	Jun. 2023 - present	Postdoctoral Fellow , UC Berkeley, CA	Aug. 2022 - Jul. 2023																		
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How to Achieve Both Transparency and Accuracy in Predictive Decision Making: an Introduction to Strategic Prediction, FAccT21 Mar. 2021
Co-taught with Benjamin Edelman and Yonadav Shavit
[\[https://www.benjaminedelman.com/tutorial.html\]](https://www.benjaminedelman.com/tutorial.html)

Incentive-Compatible and Incentive-Aware Learning, EC20 Jun. 2020
Co-taught with Nika Haghtalab
[\[https://www.charapodimata.com/EC20-tutorial.html\]](https://www.charapodimata.com/EC20-tutorial.html)

TEACHING

Instructor, MIT Sloan

Courses

Data, Models, and Decisions (MIT 15.060) Fall 2023, 2024
Common Experience (MIT 15.090) Summer 2024

Teaching Fellow, Harvard University Fall 2017, Fall 2018, Fall 2020

Course: Introduction to Optimization (AM121)

Instructor (2017, 2018): Yiling Chen

Instructor (2020): Yiling Chen & Margo Levine

Teaching Assistant, NTUA, Greece Fall 2015

Courses: Introduction to programming (PaZcal), Algorithms and Complexity

Instructor: Dimitris Fotakis

ADVISING

Valia Efthymiou 2024 - present
PhD student at MIT ORC

Nicolas Emmenegger 2024 - present
PhD student at MIT ORC

Ekaterina Fedorova 2023 - present
PhD student at UPenn visiting MIT

Zijie (Jerry) Zhou (co-advised with P. Jaillet) 2023 - present
PhD student at MIT ORC

Apostolis Tsorvantzis (co-advised with D. Fotakis, C. Caramanis) 2023 - present
PhD student at Archimedes AI/Athena RC

Chrysa Oikonomou (co-advised with K. Sotiraki) 2023 - present
PhD student at Archimedes AI/Athena RC

Madeline Celi Kitch 2024 - 2025
Predoctoral RA at MIT

**SELECTED
INVITED TALKS**

Calibrated Stackelberg Games: Learning Optimal Commitments Against Calibrated Agents
ORC seminar Mar. 2024
CU Boulder theory seminar Aug. 2024

The Disparate Effects of Recommending to Strategic Users
Recommendations Ecosystem Workshop (AAAI24) Feb. 2024

Workshop on Fairness in Operations and AI (Columbia IEOR)	Nov. 2023
The Future of AI and Economics (Harvard Business School)	Sep. 2023
Stanford RAIN Seminar	May 2023
Morgan Stanley ML research seminar	Aug. 2023

Information Discrepancy in Strategic Learning

TOC4Fairness Online Seminar Series	Oct. 2022
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Corruption-Robust Contextual Search

Simons institute workshop on “Quantifying Uncertainty”	Sep. 2022
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Transparency and Accuracy in Predictive Decision Making: an Introduction to Strategic Prediction

Quant Seminar at the U.S. Securities and Exchange Commission	Apr. 2022
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Incentive-Aware Machine Learning for Decision-Making

University of Michigan, IOE Department	Jan. 2022
MIT Sloan, OR/Stat Group	Jan. 2022
Cornell, ORIE Department	Jan. 2022
USC Marshall, OM Group	Jan. 2022
Stanford GSB, OIT Group	Jan. 2022
CMU Tepper, OR Group	Feb. 2022
TTIC	Feb. 2022
UChicago, Data Science + CS	Feb. 2022
Northeastern, CS Department	Feb. 2022
Cornell, Information Science Department	Feb. 2022
Columbia, IEOR Department	Feb. 2022
Yale, Stats and Data Science	Feb. 2022
UC Berkeley, Statistics Department	Mar. 2022
MIT EECS, AI + D	Mar. 2022
US General Services Administration Data Science Seminar	May 2022
CMU’s 5th YinzOR Conference (plenary talk)	Aug. 2022

Contextual Search in the Presence of Irrational Agents

Cornell Young ORIE Researchers Workshop	Oct. 2021
BU Algorithms and Theory Seminar	Oct. 2021
NEU Theory Lunch	Nov. 2021
Stanford Information Systems Laboratory Colloquium	Jan. 2022
Amazon Ads	Apr. 2022

Learning Strategy-Aware Linear Classifiers

Northeastern University Theory Seminar	Nov. 2019
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Learning to Bid Without Knowing your Value

Google NYC, Algorithms Seminar.	Jul. 2018
Yahoo! Research NYC, Algorithms Seminar.	Jun. 2018

INTERNSHIPS

Research Intern , Google Research NYC	May - Aug., 2021
Research Intern , Microsoft Research NYC	Feb. - May, 2020
Research Intern , Microsoft Research NYC	May - Aug., 2019
Business Intern , Google Athens, Greece	Feb. - Aug. 2016

PUBLICATIONS
(Alphabetical Author
Order)

Journals

Contextual Search in the Presence of Adversarial Corruptions

Akshay Krishnamurthy, Thodoris Lykouris, Chara Podimata, and Robert Schapire
Operations Research 2022 (OR22)

[<https://arxiv.org/pdf/2002.11650.pdf>]

Conferences

Preferences Evolve and So Should your Bandits: Bandits with Deterministically Evolving States

Khashayar Khosravi, Renato Paes Leme, Chara Podimata, and Apostolis Tsorvantzis
In Proc. of the 25th conference on Economics and Computation (EC24)

[<https://arxiv.org/pdf/2307.11655.pdf>]

Can Probabilistic Feedback Drive User Impacts in Online Platforms?

Jessica Dai, Bailey Flanigan, Meena Jagadeesan, Nika Haghtalab, and Chara Podimata

In Proc. of the 27th International Conference on Artificial Intelligence and Statistics (AISTATS24) [<https://arxiv.org/pdf/2401.05304>]

Strategyproof Decision-Making in Panel Data Settings and Beyond

Keegan Harris, Anish Agarwal, Chara Podimata, and Steven Zhiwei Wu
In *ACM SIGMETRICS Performance Evaluation Review* 2024 (SIGMETRICS24)

[<http://arxiv.org/abs/2211.14236>]

Calibrated Stackelberg Games: Learning Optimal Commitments Against Calibrated Agents

Nika Haghtalab, Chara Podimata, and Kunhe Yang

In Proc. of the 37th Conf. of Neural Information Processing Systems (NeurIPS23)

Spotlight

[<https://arxiv.org/pdf/2306.02704.pdf>]

Strategic Apple Tasting

Keegan Harris, Chara Podimata, and Steven Zhiwei Wu

In Proc. of the 37th Conf. of Neural Information Processing Systems (NeurIPS23)

[<https://arxiv.org/pdf/2306.06250.pdf>]

Corruption-Robust Contextual Search through Density Updates

Renato Paes Leme, Chara Podimata, and Jon Schneider

In Proc. of the 35th Annual Conference on Learning Theory (COLT22)

[<https://arxiv.org/pdf/2206.07528.pdf>]

Information Discrepancy in Strategic Learning

Yahav Bechavod, Chara Podimata, Zhiwei Steven Wu, and Juba Ziani

In Proc. of the 39th International Conference on Machine Learning (ICML22)

[<https://arxiv.org/pdf/2103.01028.pdf>]

Contextual Search in the Presence of Irrational Agents

Akshay Krishnamurthy, Thodoris Lykouris, Chara Podimata, and Robert Schapire
In the Proc. of the 53rd ACM Symposium on Theory of Computing (STOC21)

Operations Research 2022

[<https://arxiv.org/pdf/2002.11650.pdf>]

Adaptive Discretization for Adversarial Lipschitz Bandits

Chara Podimata and Aleksandrs Slivkins
In the Proc. of the 34th Annual Conference on Learning Theory (COLT21)

[<https://arxiv.org/pdf/2006.12367.pdf>]

Learning Strategy-Aware Linear Classifiers

Yiling Chen, Yang Liu, and Chara Podimata
In Proc. of the 34th Conf. on Neural Information Processing Systems (NeurIPS20)

[<https://arxiv.org/pdf/1911.04004.pdf>]

No-Regret and Incentive-Compatible Online Learning

Rupert Freeman, David Pennock, Chara Podimata, and Jennifer Wortman Vaughan
In Proc. of the 37th International Conference on Machine Learning (ICML20)

Poster Presentation Honorary Mention 14th Annual ML Symposium (NYAS).

[<https://arxiv.org/pdf/2002.08837.pdf>]

Strategyproof Linear Regression in High Dimensions: An Overview

Yiling Chen, Chara Podimata, Ariel D. Procaccia, and Nisarg Shah

ACM SIGEcom Exchanges (Research Letter) Invited

[https://www.sigecon.org/exchanges/volume_17/1/CHEN.pdf]

A Bridge between Liquid and Social Welfare in Combinatorial Auctions with Submodular Bidders

Dimitris Fotakis, Kyriakos Lotidis, and Chara Podimata

In Proc. of the 33rd AAAI Conference on Artificial Intelligence (AAAI19)

[<https://arxiv.org/pdf/1809.01803v1.pdf>]

Learning to Bid Without Knowing your Value

Zhe Feng, Chara Podimata, and Vasilis Syrgkanis

In Proc. of the 19th ACM Conference on Economics and Computation (EC18)

Spotlight award 2nd place prize at the 13th Annual ML Symposium (NYAS).

[<https://arxiv.org/abs/1711.01333>]

Strategyproof Linear Regression in High Dimensions

Yiling Chen, Chara Podimata, Ariel D. Procaccia, and Nisarg Shah

In Proc. of the 19th ACM Conference on Economics and Computation (EC18)

Among the 5 shortlisted papers for the Best Paper Award

[<https://arxiv.org/pdf/1805.10693.pdf>]

Preprints

When Should you Offer an Upgrade: Online Upgrading Mechanisms for Resource Allocation

Patrick Jaillet, Chara Podimata, Andrew Vakhutinsky, and Zijie Zhou

[<https://arxiv.org/abs/2402.08804>]

Grace Period is All You Need: Individual Fairness without Revenue Loss in Revenue Management

Patrick Jaillet, Chara Podimata, and Zijie Zhou
[\[https://arxiv.org/abs/2402.08533\]](https://arxiv.org/abs/2402.08533)

Recommending to Strategic Users

Andreas Haupt, Chara Podimata, and Dylan Hadfield-Menell
[\[https://arxiv.org/pdf/2302.06559.pdf\]](https://arxiv.org/pdf/2302.06559.pdf)

PROFESSIONAL SERVICE

Senior Area Chair: NeurIPS2024

Area Chair: NeurIPS2023

Senior PC: WWW2025, COLT2024

PC Member: FORC2024, EC2024, ICML2024, FAccT2024, WINE2023, COLT 2020-2023, FORC23, EAAMO22-23, NeurIPS2022, ICML2022-2023, FAccT2022, WINE 2021, ICML2021 (**Best Reviewers Award**), NeurIPS 2020-2021 (**Best Reviewers Award**), IJCAI 2020, Emerging Track on AI for Social Impact (AAAI-20, AAAI-21)

Journal Refereeing: Annals of Statistics, Journal of American Statistical Association (JASA), Management Science (MS), Operations Research (OR), Review of Economics and Statistics, Artificial Intelligence Journal (AIJ), Transactions of Machine Learning Research (TMLR), Journal of Machine Learning Research (JMLR), IEEE Transactions on Control of Network Systems (TCNS), Theoretical Computer Science (TCS), Theory of Computing Systems (ToCS)

COMMUNITY SERVICE

LeT-All podcast creator, producer & host 2024-
EC Mentoring Workshop, *Presenter for “How-To” talk* EC23
LeT-All, *Volunteer Panelist* Oct. 2022
EC Mentoring Workshop, *Volunteer Panelist* EC 2022
LeT-All, *Volunteer Teaching Assistant* ALT 2022
TA at Nicole Immorlica’s session on Peer Review
Google Serve, Athens, Greece, *Volunteer* June 2016
Project: Building a playground for refugee kids in the refugee camp (Elaionas, Greece)
Organizing 1st Girls Day event at Google, Greece Mar. 2016
As part of my participation at Women@Google
Instructor at Code it Like a Girl, Athens, Greece May 2015 - Sep. 2016
Code it Like a Girl is a volunteering start-up teaching coding to women of all ages.
Free tutoring for children of impoverished families, Athens, Greece 2012-2014