

# Theodoros Tsilivis

665 Commonwealth Ave, Boston, MA 02215, USA • [tsilivis@bu.edu](mailto:tsilivis@bu.edu) • [Website](#)

## EDUCATION

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- 2023 – Present **Boston University**, Boston, MA, USA
- PhD Candidate in Computing and Data Science.
    - Academic advisor: Kira Goldner
- 2016 – 2022 **National Technical University of Athens (NTUA)**, Athens, Greece
- BSc & MSc in Electrical and Computer Engineering (5-year degree).
    - Grade: 8.95/10 (top 5% in graduating class).
    - Orientation: Information Technology (Computer Systems, Computer Software, Systems, Automatic Control, and Robotics).
    - Thesis: “Mechanism Design for Combinatorial Auctions with Machine Learned Advice” (Grade 10/10).

## RESEARCH INTERESTS

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My interests lie in algorithmic mechanism design shaped by modern learning environments, with a focus on: (1) the interdependent values model, (2) incentive structures for emerging AI-driven markets, and (3) learning-augmented mechanisms.

## PUBLISHED WORK

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- **Bilateral Trade with Interdependent Values: Information vs. Approximation**, with Shahar Dobzinski, Alon Eden, Kira Goldner, and Ariel Shaulker. In Proceedings of the 26th ACM Conference on Economics and Computation (**EC 2025**).

## ONGOING RESEARCH

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- **Mechanism Design with Predictions**: with Kira Goldner and Divyarthi Mohan.
- **Procurement with Budgets**: with Alon Eden, Eldar Kerner, and Kira Goldner.

## AWARDS

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- Wexler Fellowship (2023-24).
- Gerondelis Foundation Fellowship (2024-25).
- Eleni Gatzoyiannis Scholarship (2024-25), (2025-26).

## INVITED TALKS

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- Bilateral Trade with Interdependent Values - Northeastern Theory Seminar - In person (Scheduled March 2026).
- Bilateral Trade with Interdependent Values - Harvard EconCS Seminar - In person (Scheduled December 2025).
- Bilateral Trade with Interdependent Values - Boston University PhD Student Seminar - In person (October 2025).
- Recent Advances in Subadditive Combinatorial Auctions - Drexel Theory Reading Group - Virtual (October 2021).

## PROFESSIONAL EXPERIENCE & PARTICIPATION

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- June 2025 **Invited Poster**, Workshop on Algorithms, Learning, and Games ([ALGA'25](#)), Sardinia, Italy.
- June 2024 **Volunteer**, The 3rd Workshop on Algorithms for Learning and Economics ([WALE'24](#)), Kefalonia, Greece.
- 2021 – 2023 **Undergraduate Research**, [Corelab](#), National Technical University of Athens, Greece.
- Co-organizer CoreLab’s algorithms study group.
  - Assisted in courses Algorithms and Complexity (2021-22, 2022-23), Discrete Mathematics (2022), Computer Programming (2022-23).

## SKILLS

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- Algorithmic Game Theory, Randomized Algorithms, Approximation Algorithms.
- Fundamental Machine Learning theory (Supervised & Unsupervised), projects using torch, tensorflow, sklearn.
- Programming (Python, C++, C, Prolog, Standard ML, Matlab, HTML, SQL). Github [page](#).
- English (fluent), German (basic), Greek (native).

## REVIEWING

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- External Reviewer for NeurIPS 2025, External Sub-Reviewer for SODA 2026.