

vas.livanos@gmail.com

Website

Google Scholar

#### Nationality:

Greek

#### Date of Birth:

September 20th, 1993

#### Research Interests

- Algorithms under Uncertainty
- Combinatorial Optimization
- Algorithmic Game Theory
- Online Mechanism Design

#### Languages

- Greek (Native)
- English (Fluent)
- Spanish (Intermediate)
- Italian (Basic)
- French (Basic)

# Vasilis Livanos

## Experience

### Jun 2025 - current, CMM

Post-Doctoral Researcher. Hosts: [José Correa](#) and [José Soto](#).

### Oct 2024 - Apr 2025, EPFL

Visiting Post-Doctoral Researcher. Host: [Andrés Cristi](#).

### Sep 2024 - Apr 2025, Archimedes AI

Affiliated Researcher.

### Jan 2024 - Jun 2024, University of Chile

Post-Doctoral Researcher. Host: [José Correa](#).

## Education

### Aug 2017 - Dec 2023, University of Illinois at Urbana-Champaign

Ph.D. in Computer Science. Advisors: [Ruta Mehta](#) and [Chandra Chekuri](#).

*Thesis: Optimal Stopping Problems And Combinatorial Optimization Under Uncertainty*

### Oct 2011 - Mar 2017, National Technical University of Athens

Diploma in Electrical and Computer Engineering. Advisor: [Dimitris Fotakis](#).

*GPA: 9.2/10 (Top 2%) - Excellent.*

## Conference Publications

### [9] Free-Order Secretary for Two-Sided Independence Systems

with Kristóf Bérczi, José Soto and Victor Verdugo, *in submission*

### [8] Minimization I.I.D. Prophet Inequality via Extreme Value Theory: A Unified Approach

with Ruta Mehta, *EC 2025*

### [7] Matroid Secretary via Labeling Schemes

with Kristóf Bérczi, José Soto and Victor Verdugo, *IPCO 2025*

### [6] Improved Mechanisms and Prophet Inequalities for Graphical Dependencies

with Kalen Patton and Sahil Singla, *EC 2024*

### [5] Oracle-Augmented Prophet Inequalities

with Sariel Har-Peled and El-Farouk Harb, *ICALP 2024*

### [4] Minimization is Harder in the Prophet World

with Ruta Mehta, *SODA 2024*

### [3] Simple and Optimal Greedy Online Contention Resolution Schemes

*NeurIPS 2022*

### [2] (Almost) Envy-Free, Proportional and Efficient Allocations of an Indivisible Mixed Manna

with Ruta Mehta and Aniket Murhekar, *AAMAS 2022*

### [1] On Submodular Prophet Inequalities and Correlation Gap

with Chandra Chekuri, *SAGT 2021*

## Journal Publications

### [4] Posted Pricing and Competition in Large Markets

with José Correa, Dana Pizarro and Victor Verdugo, *in submission*

### [3] Matroid Secretary via Labeling Schemes

with Kristóf Bérczi, José Soto and Victor Verdugo, *in submission*

### [2] Improved Mechanisms and Prophet Inequalities for Graphical Dependencies

with Kalen Patton and Sahil Singla, *to appear in Mathematics of Operations Research*

### [1] On Submodular Prophet Inequalities and Correlation Gap

with Chandra Chekuri, *Theoretical Computer Science*

## Theses

2023, *Optimal Stopping Problems And Combinatorial Optimization Under Uncertainty*, PhD Thesis

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2017, *Convergence and Equilibria in Coevolutionary Opinion Formation Games*, Diploma Thesis

## Scientific Visits

Jan. 2025, 1-month visit at University of Chile

Host: Jose Correa

Sep. 2023 - Nov. 2023, 2-month visit at Georgia Institute of Technology

Host: Sahil Singla

Feb. 2023, 1-month visit at Eötvös Loránd University

Host: Kristóf Bérczi

Jan. 2023, 1-month visit at University of Chile

Host: Jose Correa

## Selected Talks and Presentations

For a full list click [here](#).

2025, Talk - *Minimization I.I.D. Prophet Inequality via Extreme Value Theory: A Unified Approach*

26th ACM Conference on Economics and Computation (EC), Stanford, CA, USA.

Drexel University, Philadelphia, PA, USA.

UC Irvine, Irvine, CA, USA.

2025, Talk - *Matroid Secretary via Labeling Schemes*

26th Conference on Integer Programming and Combinatorial Optimization (IPCO), Baltimore, MD, USA.

Summer Workshop on Combinatorial Optimization, Santiago, Chile.

SUPSI, Lugano, Switzerland.

2024, Talk - *Improved Mechanisms and Prophet Inequalities for Graphical Dependencies*

INFORMS Annual Meeting, Seattle, USA.

2024, Tutorial - *An Overview of Optimal Stopping Theory*

UC Irvine, Irvine, USA.

2024, Talk - *Oracle-Augmented Prophet Inequalities*

51st EATCS International Colloquium on Automata, Languages and Programming (ICALP), Tallinn, Estonia.

2024, Talk - *Minimization is Harder in the Prophet World*

ACM-SIAM Symposium on Discrete Algorithms (SODA) 2024, Alexandria, USA.

2023, Talk - *Optimal Stopping Problems for Cost Minimization*

EPFL, Lausanne, Switzerland.

Google, Zurich, Switzerland.

ETH, Zurich, Switzerland.

University of Bonn, Bonn, Germany.

2023, Talk - *Combinatorial Optimization under Uncertainty*

2nd Drafting Workshop in Discrete Mathematics and Probability, Budapest, Hungary.

2022, Poster - *Simple and Tight Greedy Online Contention Resolution Schemes*

36th Conference on Neural Information Processing Systems (NeurIPS), New Orleans, USA.

2022, Talk - *Combinatorial Optimization under Uncertainty and Prophet Inequalities*

Eötvös Loránd University, Budapest, Hungary.

Karlsruhe Institute of Technology, Karlsruhe, Germany.

Max Planck Institute for Informatics, Saarbrücken, Germany.

2022, Talk - *How to Choose a Partner Using Math*

2022 PhD Intern Conference (PIRC), Google, USA.

2021, Talk - *On Submodular Prophet Inequalities and Correlation Gap*

14th Symposium on Algorithmic Game Theory (SAGT), Aarhus, Denmark.

2021, Poster: *On Submodular Prophet Inequalities and Correlation Gap*

22nd Conference on Economics and Computation (EC), Budapest, Hungary.

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## Awards and Honours

### 2023, *Dissertation Travel Award*, University of Illinois at Urbana-Champaign

Awarded for the completion of the PhD dissertation.

### 2022, *NeurIPS Scholar Award*, NeurIPS '22

Awarded to provide financial assistance to graduating PhD students.

### 2020, *Outstanding Teaching Assistant Award, Lifetime*, University of Illinois at Urbana-Champaign

Awarded based on ranking by students and recommendation by faculty.

### 2018 - 2022, *List of Teachers Ranked as Excellent*, University of Illinois at Urbana-Champaign

Ranked "Outstanding" based on students' ratings on five occasions.

### 2017 - 2018, *Andrew and Shana Laursen Fellowship*, University of Illinois at Urbana-Champaign

Awarded to provide meaningful assistance in the recruitment of top graduate students to the Department of Computer Science.

### 2012 - 2016, *John S. Latsis Foundation Undergraduate Scholarship*, National Technical University of Athens

Awarded continuously for achieving excellence during undergraduate studies.

### 2011, *Great Moment for Education Scholarship*, Eurobank EFG

Awarded for being first among all high school students in the national final examinations.

## Professional Activities and Service

### Program Committee Member

WINE '25, FSTTCS '25, APPROX '25, EC '25, EC '24

### Peer Reviewer

- *Journals*: SIAM Journal of Computing, Journal of Computer and System Sciences, Journal of Applied Probability, Theoretical Computer Science, Mathematics of Operations Research, Algorithmica, Mathematical Programming, Transactions in Algorithms, Operations Research Letters.
- *Conferences*: STOC '26, '24, '23, '18 - IPCO '26, '24, '23, '22 - SODA '26, '25, '24, '23 - LATIN '26 - ITCS '25, '24 - FOCS '24 - EC '24, '22, '20, '18 - STACS '24 - ESA '23 - SOSA '23 - ICALP '22, '21, '19 - WINE '21, '18 - WWW '18 - SAGT '18.

### EC'22 Mentoring Workshop, Mentor

## Teaching

### Jan 2018 - Dec 2022, *Teaching Assistant*, University of Illinois at Urbana-Champaign

- "CS 583 Approximation Algorithms" (Fall 2021).
- "CS 580 Algorithmic Game Theory" (Fall 2019, Fall 2022).
- "CS 473 Algorithms" (Spring 2018).
- "CS 374 Introduction to Algorithms" (Fall 2018, Spring 2019, Spring 2020, Spring 2021, Spring 2022).

### Mar 2012 - Feb 2017, *Teaching Assistant*, National Technical University of Athens

- "Algorithms and Complexity" (Fall 2016).
- "Cryptography and Number Theory" (Fall 2016).
- "Introduction to Computer Science" (Spring 2013 - Spring 2016).
- "Programming Techniques" (Spring 2012 - Spring 2016).
- "Introduction to Programming" (Fall 2012 - Fall 2016).

## Experience

### May 2023 - Aug 2023, *Research Intern*, Google, Mountain View

### May 2022 - Aug 2022, *Software Engineering Intern*, Google, Mountain View

### Jun 2021 - Dec 2022, *Software Engineer (Contractor)*, Public Benefit Enterprise of Ancient Olympia

### Jun 2015 - Sep 2015, *Software Engineer (Contractor)*, Proini News