

# Grigorios Koumoutsos

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## Research Interests

- Online Algorithms
- Combinatorial Optimization
- Online Learning
- Theoretical Computer Science broadly

## Education

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|---------------------------|--|
| 2014 - 2018<br>(expected) | <b>PhD</b> in Computer Science, Eindhoven University of Technology<br>Thesis: Algorithms for $k$ -Server Problems.<br>Supervisor: <a href="#">Prof. Nikhil Bansal</a>  |
| 2014                      | <b>Master</b> in Computer Science, Parisian Master of Research in Computer Science ( <a href="#">MPRI</a> ),<br>co-organized by University Paris 7, École Normale Supérieure (ENS) Paris, ENS Cachan,<br>École Polytechnique<br>Thesis: Online Algorithms with Advice for the Binary Search Tree Problem.<br>Supervisor: <a href="#">Dr. Adi Rosén</a> |
| 2012                      | <b>Ptychion</b> (4-year diploma) in Informatics and Telecommunications, <a href="#">Department of Informatics and Telecommunications</a> , University of Athens<br>Supervisor: <a href="#">Prof. Elias Koutsoupias</a>   |

## Publications

- *Competitive Algorithms for Generalized  $k$ -Server in Uniform Metrics.*  
Nikhil Bansal, Marek Eliáš, Grigorios Koumoutsos, Jesper Nederlof  
to appear in ACM-SIAM Symposium on Discrete Algorithms (SODA) 2018.
- *Nested Convex Bodies are Chaseable.*  
Nikhil Bansal, Martin Böhm, Marek Eliáš, Grigorios Koumoutsos, Seun William Umboh  
to appear in ACM-SIAM Symposium on Discrete Algorithms (SODA) 2018.
- *Weighted  $k$ -Server Bounds via Combinatorial Dichotomies.*  
Nikhil Bansal, Marek Eliáš, Grigorios Koumoutsos  
IEEE Symposium on Foundations of Computer Science (FOCS) 2017.
- *The  $(h,k)$ -Server Problem on Bounded Depth Trees.*  
Nikhil Bansal, Marek Eliáš, Lukasz Jeż, Grigorios Koumoutsos  
ACM-SIAM Symposium on Discrete Algorithms (SODA) 2017.
- *Tight Bounds for Double Coverage Against Weak Adversaries.*  
Nikhil Bansal, Marek Eliáš, Lukasz Jeż, Grigorios Koumoutsos, Kirk Pruhs  
Workshop on Approximation and Online Algorithms (WAOA) 2015.  
Invited to special issue in Theory of Computing Systems (TOCS).

## Talks

- Symposium on Foundations of Computer Science (FOCS), Berkeley, California, October 2017.
- Conference on Highlights of Algorithms (HALG), Berlin, Germany, June 2017.
- Université Pierre et Marie Curie, Operations Research Seminar, Paris, France, November 2016.
- Workshop on Approximation and Online Algorithms (WAOA), Patras, Greece, September 2015.
- 2x Athens Colloquium on Algorithms and Complexity (ACAC), Athens, Greece, August 2016, 2017.

## Teaching

Spring 2015, 2016, 2017 | Undergraduate courses on Linear Algebra, Multivariable Calculus and Complex Numbers (≈ 450 hours).

## Professional Service

(Sub)Reviewer | CIAC 2017, Journal of Scheduling, Theoretical Computer Science.

## Activities

Research Visit	Visiting University Paris 7 (hosted by Adi Rosén) and University Pierre and Marie Curie (hosted by Spyros Angelopoulos), October - December 2016, June 2017.
Summer Schools	<i>Graph Theory, Algorithms and Applications</i> Center “Ettore Majorana” for Scientific Culture, Erice, Italy, May 2017. <i>Summer School on Combinatorial Optimization</i> HIM Bonn, Germany, September 2015. ADFOCS 2015, <i>New Developments in Approximation Algorithms</i> MPI Saarbrücken, Germany 17-21 August 2015. <i>Mathematical Programming and Design of Approximation Algorithms</i> Athens University of Economics and Business, Greece, April 2012.
Erasmus	Participation in exchange program “Erasmus”, <a href="#">Université d’Evry Val d’Essonne</a> , Spring 2011. Level M1 (Master 1), courses from specializations M1-“Informatics” and M1-“Architecture of Networked Systems” (in French)

## Languages

Fluent	<b>English:</b> Cambridge First Certificate in English, 2003 (IELTS 7.0/9.0, 2012) <b>Greek:</b> Native
Moderate	<b>Spanish:</b> DELE Inicial (Nivel B1), 2010 <b>French:</b> Successful attendance of level B2 courses, University Paris 7, 2014

## Conferences and Workshops

- Attended Conferences: [SODA 2017](#), [The Mathematics of Jiří Matoušek](#), [HALG \(2016, 2017\)](#), [FOCS 2015](#), [ESA 2015](#), [SODA 2015](#), [ISCO 2012](#), [ACAC \(2012-2017\)](#)
- Attended Workshops: [Computational Complexity of Low-Polynomial Time Problems](#), [Satisfiability Lower Bounds and Tight Results for Parameterized and Exponential-Time Algorithms](#), [Scheduling Under Uncertainty](#), [Workshop on Online Algorithms and Learning](#), [FILOFOCS 2014](#)