Spyridon Tzimas

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✔ Algorithmic and Structural Graph Theory   ✔ Classical and Parameterized Complexity Theory

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Studies

2014–Present	**Undergraduate Student**
institution	**Department of Computer Science and Engineering, University of Ioannina**

2016–2024	**Ph.D. in Mathematics**
institution	**Department of Mathematics, University of Ioannina**
supervisor	**Charis Papadopoulos (👤 www.cse.uoi.gr/~charis/ ✉ charis@uoi.gr)**
thesis	**Path and Cycle Hitting Problems: Algorithms and Complexity**
grade	**Excellent**

2013–2016	**Master's Degree in Mathematics**
institution	**Department of Mathematics, University of Ioannina**
specialization	**Computational Mathematics and Computer Science**
supervisor	**Charis Papadopoulos (👤 www.cse.uoi.gr/~charis/ ✉ charis@uoi.gr)**
thesis	**The Subset Feedback Vertex Set Problem on Interval Graphs and Permutation Graphs**
score	**9.54/10.00**
grade	**Excellent**

2009–2013	**Bachelor's Degree in Mathematics**
institution	**Department of Mathematics, University of Ioannina**
score	**8.51/10.00**
grade	**Excellent**

Publications

In Journals

- Charis Papadopoulos and Spyridon Tzimas. Computing a Mininum Subset Feedback Vertex Set on Chordal Graphs Parameterized by Leafage. *Algorithmica*, 86:874–906 (2024). www.doi.org/10.1007/s00453-023-01149-5

- Charis Papadopoulos and Spyridon Tzimas. Subset feedback vertex set on graphs of bounded independent set size. *Theoretical Computer Science*, 814:177–188 (2020). www.doi.org/10.1016/j.tcs.2020.01.029

- Charis Papadopoulos and Spyridon Tzimas. Polynomial-time algorithms for the subset feedback vertex set problem on interval graphs and permutation graphs. *Discrete Applied Mathematics*, 258:204–221 (2019). www.doi.org/10.1016/j.dam.2018.11.017

In Conference Proceedings

- Charis Papadopoulos and Spyridon Tzimas. Computing a Mininum Subset Feedback Vertex Set on Chordal Graphs Parameterized by Leafage. 33rd International Workshop on Combinatorial Algorithms (IWOCA 2022). *Lecture Notes in Computer Science (LNCS)*, 13270:466–479 (2022). www.doi.org/10.1007/978-3-031-06678-8_34

- Charis Papadopoulos and Spyridon Tzimas. Subset Feedback Vertex Set on Graphs of Bounded Independent Set Size. 13th International Symposium on Parameterized and Exact Computation (IPEC 2018). *Leibniz International Proceedings in Informatics (LIPIcs)*, 115:20:1–20:14 (2019). www.doi.org/10.4230/LIPIcs.IPEC.2018.20

- Charis Papadopoulos and Spyridon Tzimas. Polynomial-Time Algorithms for the Subset Feedback Vertex Set Problem on Interval Graphs and Permutation Graphs. 21st International Symposium on Fundamentals of Computation Theory (FCT 2017). *Lecture Notes in Computer Science (LNCS)*, 10472:381–394 (2017). www.doi.org/10.1007/978-3-662-55751-8_30

Funding

04/2024–10/2024	**Contract**
task	**Research in the framework of project "THEMIS"**
project	**THEMIS: Modeling, Measuring and Mitigating Bias in Online Information Platforms**
institution	**Research Committee, University of Ioannina**
action	**2nd Call for H.F.R.I. Research Projects to Support Faculty Members and Researchers**
foundation	**Hellenic Foundation for Research & Innovation** (`www.elidek.gr/en/`)

2024	**Travel Grant**
event	**Czech Summer School on Discrete Mathematics (CSSDM 2024)**
institutions	**Computer Science Institute, Charles University**
	Department of Mathematics, University of West Bohemia

2023	**Travel Grant**
event	**Advanced Course on the Foundations of Computer Science:**
	Algorithmic Foundations of Data Analysis (ADFOCS 2023)
institution	**Algorithms and Complexity Department, Max Planck Institute for Informatics**

09/2021–10/2022	**Contract**
task	**Maintenance, development and adminstration of scientific computation software**
	for the Department of Mathematics in the framework of project "DIONI"
project	**DIONI: Computing Infrastructure for Big Data Processing and Analysis,**
	Subproject 1: Scientific work and cloud services
institution	**Research Committee, University of Ioannina**
programme	**Competitiveness, Entrepreneurship and Innovation,**
	NSRF 2014–2020, Invitation 111: Support of Regional Excellence

08/2017–04/2020	**Scholarship**
action	**1st Call for H.F.R.I. Scholarships to Ph.D. Candidates**
foundation	**Hellenic Foundation for Research & Innovation** (`www.elidek.gr/en/`)

2012	**Scholarship and Distinction Award**
	for the performance in studies and ethos
	during the 2009–2010 academic year (1st year of undergraduate studies)
	at the Department of Mathematics of the University of Ioannina
foundation	**State Scholarships Foundation** (`www.iky.gr/en/`)

Experience

09/2021–10/2022	**Software Developer, Systems Administrator**
laboratory	**Laboratory of Applied and Computational Mathematics**
institution	**Department of Mathematics, University of Ioannina**

2013–2019	**Teaching Assistant**
courses	**Introduction to Computers** (Compulsory Undergraduate Course)
	Introduction to Programming (Compulsory Undergraduate Course)
institution	**Department of Mathematics, University of Ioannina**

Skills

Programming Languages for • **Software Development:** C/C++, C#, Java, Python
                            • **Scientific Computation:** Fortran, Mathematica, MATLAB

Parallel Computing APIs for • **CPUs:** OpenMP, MPI
                              • **Nvidia GPUs:** CUDA

Python Libraries for • **Scientific Computation:** `numpy/scipy`
                       • **Data Science:** `networkx`, `pandas`, `sklearn`
                       • **Data Visualization:** `matplotlib/seaborn`

References

Charis Papadopoulos

Associate Professor
Department of Mathematics
University of Ioannina
`www.cse.uoi.gr/~charis/`
charis@uoi.gr

Loukas Georgiadis

Associate Professor
Department of Computer Science and Engineering
University of Ioannina
`www.cse.uoi.gr/~loukas/`
loukas@uoi.gr

Stavros D. Nikolopoulos

Professor

`www.cse.uoi.gr/~stavros/`
stavros@uoi.gr

Participation

2023

- 18th International Conference on Advances in Computer Games (**ACG 2023**)
  held virtually.

- Algorithms, Approximation, and Learning in Market and Mechanism Design,
  a workshop organized by the Simons Laufer Mathematical Sciences Institute (**SLMath**),
  held both physically and virtually in Berkeley, California, USA.

- 24th International Symposium on Fundamentals of Computation Theory (**FCT 2023**)
  held both physically and virtually in Trier, Germany.

- 23rd Max-Planck Summer School Advanced Course on the Foundations of Computer Science (**ADFOCS 2023**)
  held in Saarbrücken, Germany.

2022

- High Performance Computing Autumn Academy 2022, organized by the University of Cambridge
  under the auspices of the Gianna Angelopoulos Programme for Science Technology and Innovation (**GAPSTI**),
  held both physically and virtually in Cambridge, England, UK.

- 28th Summer School on Dynamical Systems and Complexity, dedicated to the 70th birthday
  of **Prof. Athanassios Fokas**, held both physically and virtually in Chania, Greece.

- Genetic and Evolutionary Computation Conference 2022 (**GECCO 2022**)
  held both physically and virtually in Boston, Massachusetts, USA.

- HPC Workshop on Large Scale Scientific Conputations,
  sponsored by **EuroCC@Greece** (`www.eurocc-greece.gr`), held in Athens, Greece.

- 49th EATCS International Colloquium on Automata, Languages and Programming (**ICALP 2022**)
  held both physically and virtually in Paris, France.

- Second Congress of Greek Mathematicians (**SCGM 2022**)
  held in Athens, Greece.

- Graph Width Parameters: from Structure to Algorithms (**GWP 2022**)
  and
  Recent Advances on Total Search Problems,
  workshops of the 49th EATCS International Colloquium on Automata, Languages and Programming
  (**ICALP 2022**) held both physically and virtually in Paris, France.

- 48th International Workshop on Graph-Theoretic Concepts in Computer Science (**WG 2021**)
  held both physically and virtually in Tübingen, Germany.

- 19th International Conference on the Integration of Constraint Programming, Artificial Intelligence and Operations Research (**CPAIOR 2022**) held both physically and virtually in Los Angeles, California, USA.

- 33rd International Workshop on Combinatorial Algorithms (**IWOCA 2022**)
held both physically and virtually in Trier, Germany.

2021

- Workshop on Graph Theory for Combinatorial Reconfiguration
held virtually in Sendai, Japan.

- Autumn School on Optimization and Market Design
held virtually in Trier, Germany.

- Thematic Mini-Conference on Computational Topology and Machine Learning,
part of the Thematic Einstein Semester on Geometric and Topological Structure of Materials at MATH+,
the Berlin Mathematics Research Center, held virtually in Berlin, Germany.

- Summer School on modern directions in discrete optimization
and
Workshop on tropical geometry and the geometry of linear programming,
parts of the Trimester Program on Discrete Optimization at the Hausdorff Research Institute for Mathematics,
held virtually in Bonn, Germany.

- 2021 e-Summer School on Mathematical Biology
held virtually in Patras, Greece.

- 16th Athens Colloquium on Algorithms and Complexity (**ACAC '21**)
held virtually in Athens, Greece.

- 2021 NTHU (Online) Summer School on Operations Research and Applications
held virtually in Hsinchu, Taiwan.

- 22nd Max-Planck Summer School Advanced Course on the Foundations of Computer Science (**ADFOCS 2021**)
held virtually in Saarbrücken, Germany.

- Topics in Algorithmic Graph Theory 2021
held virtually in Haifa, Israel.

- Graph Width Parameters: from Structure to Algorithms (**GWP 2021**),
a workshop of the 48th International Colloquium on Automata, Languages and Programming (**ICALP 2021**)
held virtually in Glasgow, Scotland, UK.

- 18th International Conference on the Integration of Constraint Programming, Artificial Intelligence and Operations Research (**CPAIOR 2021**) held virtually in Vienna, Austria.

- 47th International Workshop on Graph-Theoretic Concepts in Computer Science (**WG 2021**)
held virtually in Warsaw, Poland.

- 6th Highlights of Algorithms (**HALG 2021**)
held virtually in London, England, UK.

2020

- International Autumn School on Constraint Programming, Combinatorial Optimization and Machine Learning
held virtually in Toulouse, France.

- 17th International Conference on the Integration of Constraint Programming, Artificial Intelligence and Operations Research (**CPAIOR 2020**) held virtually in Vienna, Austria.

- 5th Highlights of Algorithms (**HALG 2020**)
held virtually in Zürich, Switzerland.

- 15th Athens Colloquium on Algorithms and Complexity (**ACAC '20**)
held virtually in Athens, Greece.

- 47th International Colloquium on Automata, Languages and Programming (**ICALP 2020**)
and
35th Annual ACM/IEEE Symposium on Logic in Computer Science (**LICS 2020**)
held virtually in Saarbrücken, Germany.

- 15th International Computer Science Symposium in Russia (**CSR 2020**)
held virtually in Ekaterinburg, Russia.

- Computability in Europe 2020: Beyond the horizon of computability (**CiE 2020**)
  held virtually in Salerno, Italy.

- 46$^{\text{th}}$ International Workshop on Graph-Theoretic Concepts in Computer Science (**WG 2020**)
  held virtually in Leeds, England, UK.

2019

- 44$^{\text{th}}$ International Symposium on Mathematical Foundations of Computer Science (**MFCS 2019**)
  held in Aachen, Germany.

2018

- 13$^{\text{th}}$ International Symposium on Parameterized and Exact Computation (**IPEC 2018**)
  held in Helsinki, Finland.

- First Congress of Greek Mathematicians (**FCGM 2018**)
  held in Athens, Greece.

- 2$^{\text{nd}}$ Conference of Young Researchers in the Branches of Mathematical Science
  held in Ioannina, Greece.

2017

- 3$^{\text{rd}}$ Parameterized Complexity Summer School (**PCSS 2017**)
  held in Vienna, Austria.