

CV: Angelina Vidali

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Research interests: General: Algorithms (Randomized, Online, Approximation Algorithms), Optimization, Complexity, Streaming, Computational Algebra & Geometry, Specialization: Algorithmic Game Theory, Mechanism Design (Combinatorial Auctions, Scheduling, Cost-sharing), Computation of Equilibria

Positions and research stays

- Currently: **Universität Wien**, Postdoc researcher in the group Theory and Applications of Algorithms of **Monika Henzinger**, December 2010-
- **Research stay: Institute for Advanced Studies**, Hebrew University of Jerusalem, 23.5-19.6.11, invited by Noam Nisan and Michal Feldman.
- **W1-Juniorprofessur offer: University of Siegen (Germany)**, January 2011 (declined)
- **Postdoc researcher: Max-Planck Institut für Informatik**, Saarbrücken, Germany, 2009-2010

Education

- **PhD** (2005-2009) University of Athens, Department of **Informatics, (Hons.)** Advisor: **Elias Koutsoupias**, Title: “Game-theoretic analysis of networks”
- **Master's** (2003-2005) Inter-university Program in **Logic, Algorithms and Computation** (MPLA) **(Hons.)**, ranked 1st
Advisor: **Yiannis Moschovakis**, Thesis: “Continued Fractions and the Euclidean Algorithm”
- **Bachelor's** (1999-2003), University of Athens, Department of **Mathematics**, Summer semester 2003: **Technical University of Vienna (TUW)**, **(Hons.)**, ranked at the top 1%.

Scholarships and Honors

- **National Institute for Informatics, Japan** (travel grant for SODA'12), 2012
- **Austrian Research Association (ÖFG) (Austria)** (travel grant), 2011, 2012
- **Alexander von Humboldt Foundation (Germany)** (Post Doc Research Fellowship), 2010
- **Max-Planck Institut für Informatik (Germany)** (Post Doc Research Fellowship), 2009-2010
- **Greek General Secretariat for Research and Technology** (for PhD studies), 2005-2008
- **Association for Symbolic Logic (ASL) (USA)** (travel grant), June, 2005
- **Alexandros Onassis Foundation** (for graduate studies), 2004-2005
- **Greek State Scholarships Foundation (IKY)** (ranked 1st), 2004-2005 (declined)
- **Greek State Scholarships Foundation (IKY)** (ranked 1st), 2003-2004
- **University of Athens, Antonis Papadakis fund** (for undergraduate studies), 2001-2003
- **Erasmus** (European Commission exchange program), summer semester 2003
- **Greek State Scholarships Foundation (IKY)** (ranked 5th), 1999-2000

Papers

Papers in Conferences

- How to Bribe a Prison Guard: High-Probability Implementation in Undominated Strategies. Amos Fiat, Anna Karlin, Elias Koutsoupias and Angelina Vidali, (manuscript)
- Extending characterizations from subdomains to domains. Angelina Vidali, 7th Workshop in Internet and Network Economics, (**WINE '11**)
A preliminary version was presented at the **Innovations in Algorithmic Game Theory workshop**.
- Multi-parameter mechanism design under budget and matroid constraints. Monika Henzinger and Angelina Vidali, 19th Annual European Symposium on Algorithms, (**ESA'11**)
A preliminary version was presented at the **Workshop GREAT: Economic and Algorithmic Theory Week**.
- A complete characterization of group-strategyproof mechanisms of cost-sharing. Emmanouil Pountourakis and Angelina Vidali, (**ESA'10**) 18th Annual European Symposium on Algorithms, also **invited to the special issue of Algorithmica for ESA**.
- The Geometry of Truthfulness. Angelina Vidali, (**WINE '09**), 5th Workshop in Internet and Network Economics.
- A characterization of 2-player mechanisms for scheduling. George Christodoulou, Elias Koutsoupias and Angelina Vidali, 16th Annual European Symposium on Algorithms (**ESA '08**).
- A $1+\phi$ lower bound for truthful scheduling mechanisms. Elias Koutsoupias and Angelina Vidali, 32nd International Symposium on Mathematical Foundations of Computer Science (**MFCS '07**).
- A lower bound for scheduling mechanisms. George Christodoulou, Elias Koutsoupias and Angelina Vidali, 18th ACM-SIAM Symposium on Discrete Algorithms (**SODA'07**).

Papers in Journals

- Multi-parameter mechanism design under budget and matroid constraints. Monika Henzinger and Angelina Vidali, submitted to **ACM Transactions on Algorithms**.
- A $1+\phi$ lower bound for truthful scheduling mechanisms. Elias Koutsoupias and Angelina Vidali, **accepted in Algorithmica**.
- A complete characterization of group-strategyproof mechanisms of cost-sharing. Emmanouil Pountourakis and Angelina Vidali, **Algorithmica special issue for ESA'10** . DOI: [10.1007/s00453-011-9602-6](https://doi.org/10.1007/s00453-011-9602-6)
- A lower bound for scheduling mechanisms. George Christodoulou, Elias Koutsoupias and Angelina Vidali, **Algorithmica 55(4): 729-740, 2009**.

Experience as a researcher in Projects

- EU FP7 Project, FRONTS, Foundations of Adaptive Networked Societies of Tiny Artefacts.

- EU FP7 Project, AEOLUS, Algorithmic Principles for Building Efficient Overlay Computers.
- WWTF Project, Challenges in sponsored search auctions.

Professional Activities

Reviewer:

for the Conferences: **FOCS** (IEEE Symposium on Foundations of Computer Science), **STOC** (ACM Symposium on Theory of Computing), **SODA** (ACM-SIAM Symposium on Discrete Algorithms), **AAAI** (Conference on Artificial Intelligence), **ICALP** (International Colloquium on Automata, Languages and Programming), **ESA** (European Symposium on Algorithms), **EC** (ACM Conference on Electronic Commerce), **ISSAC** (International Symposium on Symbolic and Algebraic Computation), **SPAA** (ACM Symposium on Parallelism in Algorithms and Architectures), **SWAT** (Scandinavian Symposium and Workshops on Algorithm Theory), **WINE** (Internet & Network Economics), **SAGT** (International Symposium on Algorithmic Game Theory), **CiE** (Computability in Europe)

and the Journals: **GEB** (Games and Economic Behavior), **TOCS** (Theory of Computing Systems), **IPL** (Information Processing Letters), **Discrete Mathematics & Theoretical Computer Science**, **Journal of Symbolic Computation**, **Maths of Operations Research**, **Journal of Scheduling**.

Master's and bachelor's thesis supervision

- Hendrik Molter, Bachelor's Thesis, Universität des Saarlandes 2010
- Emmanouil Pountourakis, Bachelor's Thesis, University of Athens 2008
- Aikaterini Iatropoulou, Master's Thesis, University of Athens 2007

Organization of reading groups and seminars

- **Algorithmic Game theory reading group**, University of Vienna, 2011-
- **Crash course on Bayesian and Approximate Mechanism Design**, December 2010-January 2011 (together with Yiannis Giannakopoulos, Katia Papakonstantinou and George Pierrakos), University of Athens, Department of Informatics
- **Student theory seminar**, University of Athens, 2008-2009

Teaching

- **“Algorithmic Game Theory”**, Universität des Saarlandes, Germany (Summer 2010)

Teaching assistant

- **“Computability”**, University of Athens (2003)
- **“Algorithms and Complexity”**, University of Athens (2004, -05, -06, -07, -08, -09)
- **“Probabilistic Algorithms”** University of Athens, (2006)
- **“Topics in Game Theory and Computation”**, University of Athens, (2007, 2008)
- **“Mathematics for Informatics and Telecommunications”**, University of Athens, (2007)

Selected Talks

- **Invited Talk: COMSOC workshop**, Ecole Polytechnique, Paris, 25th January 2012
- **Invited Talk: RiSE Seminar**, TU Wien, 25th Oktober 2011
- 19th Annual European Symposium on Algorithms, September 2011
- **Invited Talk: GREAT: Economic and Algorithmic Theory Week**, July 25-29 (organized by Elias Koutsoupias, Constantinos Daskalakis and Jason Hartline)
- **Invited Talk: Innovations in Algorithmic Game Theory** workshop, 22-26 May 2011, Hebrew University of Jerusalem
- **Invited Talk:** Innovation Center Secure Business Austria, Vienna, 10th May 2011
- **Invited talk**, Workshop on Logic and Computer Science, Kurt Gödel Research Center, Wien, 25th March 2011
- **ADFOCS '10 (11th Max-Planck Advanced Course on the Foundations of Computer Science)**
- August 2010, Saarbrücken, Germany.
- 5th Athens Colloquium on Algorithms and Complexity (ACAC '10), National Technical University of Athens
- 5th Workshop in Internet and Network Economics, December '09, Rome
- **Invited talk at Univesität Wien**, November 19, 2009
- 4th Athens Colloquium on Algorithms and Complexity (ACAC '09), August 2008, Athens University of Economics and Business.
- **Invited talk at TU Berlin**, Germany, May 19, 2010
- **Invited talk at the Bertinoro Workshop on Frontiers of Algorithmic Mechanism Design**, 15th March '10 (organized by Jason Hartline and Tim Roughgarden)
- **Invited talk at the University of Liverpool**, November 3, 2009
- **Invited talk at IDSIA** (Istituto Dalle Molle di Studi sull'Intelligenza Artificiale), March 27, 2009, Lugano, Switzerland.
- **Invited talk at EPFL** (Ecole Polytechnique Fédéral de Lausanne), February 2, 2009, Switzerland.
- European Symposium on Algorithms (ESA '08), September '08, Karlsruhe, Germany.
- 3rd Athens Colloquium on Algorithms and Complexity (ACAC '08), August 2008, University of Athens.
- AEOLUS Fall Workshop, 13 September 2007, Research Academic Computer Technology Institute (CTI) Patras, Greece.
- Mathematical Foundations of Computer Science, (MFCS), August 2007, Cesky Krumlov, Czech Republic.
- 2nd Athens Colloquium on Algorithms and Complexity (ACAC '07), August 2007, National Technical University of Athens.
- *Presentation of Research Targets of the University of Athens within FRONTS*. FRONTS workshop, November 2008, Lübeck, Germany.

Workshop and Summer school attendance

- **Dagstuhl workshop: Equilibrium Computation**, 25.04. - 30.04.2010 (**invited**)
- **10th and 11th Max-Plank Advanced Course on the Foundations of Computer Science (ADFOCS)**, 2009 and 2010, Saarbrücken, Germany.
- **Algorithmic Principles of Selfishness and Mechanism Design**, May 2008, Paderborn, Germany
- **Game Theory in Computer Science school**, June 2006, Aarhus, Denmark.
- **The Onassis Foundation Science Lecture Series** in Computer Science: “Robots Intelligently interacting with people”, July 2006, Crete (**travel grant**).
- **5th Max-Plank Advanced Course on the Foundations of Computer Science (ADFOCS)** September 2004, Saarbrücken, Germany (**travel grant**).
- **1st summer school in Mathematics**, University of Crete, July 2002 (**travel grant**).

Other:

- **Masterclass in Science Communication**, by Pr. Frank Brunet and Dr. Giorgo Zarkadaki, organized by the **British Council of Athens**, 10-11 March 2007 (As a runner-up of the Famelab contest.)

Prizes

- 5th Prize in the 7th student contest of the magazine “**Financial and Industrial Review**”, for essay with theme: “**Information Technology and New Economy in Greece**” (2001)
- 2nd Prize by **Athens Chamber of Industry**, Essay with title “**Euro and Greek Economy**” (1999)

Other activities

I was **student representative** in the Committee of the program of graduate studies MPLA. (2003-2005)

Languages Teaching proficiency in **English** (Cambridge Proficiency) and **German** (Grosses Deutsches Sprachdiplom, Goethe-Institut). Fluent in **Spanish** (Diploma Intermedio, Instituto Cervantes). Basic knowledge of **French** (6 years of study). Elementary **Norwegian** (1 semester). Native **Greek**.

References:

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