

CV: Angelina Vidali

Email: angelina.vidali@univie.ac.at

Date of Birth: 10. August 1981

Research interests: Game Theory: Mechanism Design (Auctions, Cost-sharing and Voting), Computation of Equilibria, Randomized, Online, Approximation Algorithms, Streaming, Computer Algebra, Computational Geometry

Current Position

- **Universität Wien**, December 2010- (Postdoc researcher in the group of **Monika Henzinger**)

Previous Positions

- **W1-Juniorprofessur offer, University of Siegen (Germany)**, January 2011 (declined)
- **Max-Planck Institut für Informatik**, Saarbrücken, Germany September 2009-November 2010

Experience as a researcher in Projects of the European Union

- **FRONTS**, Foundations of Adaptive Networked Societies of Tiny Artefacts
- **AEOLUS**, Algorithmic Principles for Building Efficient Overlay Computers

Education

- **PhD** (2005-2009) University of Athens, Department of **Informatics**, **GPA: 10/10** (Hons.)
Advisor: **Elias Koutsoupias**, Title: "Game-theoretic analysis of networks"
- **Master's** (2003-2005) Inter-university Program in Logic, Algorithms and Computation (MPLA)
GPA: 9,54/10 (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)**
GPA: 8,53/10 (Hons.), ranked at the top 1%
I fulfilled the degree requirements (36 courses, minimum study duration: 4 years) in 3½ years and took 11 additional courses.
- High school: "Elliniki Pedia" (1999): **GPA: 20/20** (Hons.)

Scholarships and Honors

- **Alexander von Humbolt 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 in Conferences

- Unification of Characterizations of Combinatorial Auction's subdomains.
Elias Koutsoupias and Angelina Vidali
- 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 special issue 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

- A complete characterization of group-strategyproof mechanisms of cost-sharing. Emmanouil Pountourakis and Angelina Vidali, submitted to **the Algorithmica special issue for ESA (invited)**
- A lower bound for scheduling mechanisms. George Christodoulou, Elias Koutsoupias and Angelina Vidali, **Algorithmica 55(4): 729-740, 2009**

Professional Activities

- **Reviewer** for the Conferences **FOCS, STOC, ICALP, ESA, EC, ISSAC, SPAA, SWAT, WINE, SAGT, CiE** and the Journals **TOCS, IPL, 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

Teaching

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

Teaching assistant

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

Selected Talks

On my research results:

- Mechanism Design for Scheduling and Cost-sharing.
 - **ADFOCS '10 (11th Max-Plank Advanced Course on the Foundations of Computer Science)** August 2010, Saarbrücken, Germany.
- Unification of Characterizations of Combinatorial Auction's subdomains
 - 5th Athens Colloquium on Algorithms and Complexity (ACAC '10), National Technical University of Athens
- The Geometry of Truthfulness.
 - 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.
- Designing Mechanisms for Scheduling.
 - **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,
- A characterization of 2-player mechanisms for scheduling.
 - European Symposium on Algorithms (ESA '08), September '08, Karlsruhe, Germany
 - 3rd Athens Colloquium on Algorithms and Complexity (ACAC '08), August 2008, University of Athens.
- A $\$1+\phi$ lower bound for truthful scheduling mechanisms.
 - 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

Summer schools

- **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-Planck 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.)

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). **Greek** (native).

Prizes in contests

- 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)
- Prize in the **European contest “Young Readers of Europe”**, National Book Center (2000) for a short text: “Die Schloss” (dedicated to the book of Franz Kafka).
- 2nd Prize of the of **Athens Chamber of Industry**, essay with title “**Euro and Greek Economy**” (1999)
- Prize in the **45th European-19th Panhellenic- contest of the European Day of Schools** (participation with essay on the subject: “**Peace in Europe**”) (1998)

Other activities

I was **student representative** in the Committee of the program of graduate studies MPLA. (2003-2005)
From 2006 I am a member of the Onassis Foundation Former Scholars Association.

References:

1. Monika Henzinger

Professor

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2. Elias Koutsoupas

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4. Yiannis N. Moschovakis

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