CV: Angelina Vidali

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Family Name: Vidali

First name: Angelina

Gender: Female

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**

- **Bachelor's** (1999-2003), University of Athens, Department of **Mathematics**, **(Hons.)**, ranked at the **top 1%**.

  Exchange semester (2003): **Technical University of Vienna (TUW)**

Employment

Worldwide experience working in research projects in the areas of: **Algorithms and Complexity, Graph theory, Decision Theory, Artificial Intelligence, Recommendation systems**, **Crowdsourcing, Auctions** and **Computational Microeconomics (Mechanism Design and Game Theory)**.

Current Position: De Montfort University, UK, Early career academic fellowship, Feb.'17-

Previous Positions:

- **University of Teesside**, Middlesbrough, UK, Oct 15-Sept 16

- **Pierre and Marie Curie University, LIP6, France**, Oct 2014-Sept. 2015

- **Duke University, Durham, USA,** Sept. 2012- August 2014

- **Universität Wien**, Vienna, Austria, Dec. 2010-Aug. 2012

  Research stay: **Institute for Advanced Studies, Hebrew University of Jerusalem**, 23 May **–** 19 June 2011**.**

- **Max-Planck Institut für Informatik**, Saarbrücken, Germany, Sept. 2009-Nov. 2010

Industry Experience:

- **Ernst and Young,** Consulting internship, Athens, Greece, Dec 16-Jan 16

  Project: **Data analysis for finance** (IFRS9 impact assessment for a major bank)

Other:

Senior Lecturer and Head of Department Position at the University of Fiji, 2014

Ranked 2nd for a permanent academic position in France, University of Artois, 2015

Offer for a W1 Junior-professor position in Germany, University of Siegen, 2010

Scholarships and Honors

- **Max-Planck Institut für Informatik (Germany)** (Post Doc Research Fellowship), 2009-2010
- **Greek General Secretariat for Research and Technology** (for PhD studies), 2005-2008
- **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
- **Greek State Scholarships Foundation (IKY)** (ranked 5th), 1999-2000

Travel Grants

- **National Institute for Informatics, (Japan)** (travel grant for SODA'12), 2012
- **Austrian Research Association (ÖFG) (Austria)** (travel grant), 2011, 2012
- **Association for Symbolic Logic (ASL) (USA)** (travel grant), **J**une, 2005
- **Erasmus** (European Commission exchange program), summer semester 2003

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)

Supervision of graduate students

- Seyed Majid Zahedi, PhD, Duke University (co-supervised him for about 1.5years)
- Xiaoming Nate Xu, PhD, Duke University (co-supervised him for about 1.5years)
- Hendrik Molter, Bachelor's Thesis, Universität des Saarlandes, 2010
- Emmanouil Pountourakis, Bachelor's Thesis & Master's Thesis, University of Athens 2008,2010
- Aikaterini Iatropoulou, Master's Thesis, University of Athens 2007

Together with Emmanouil Pountourakis we published a paper in the European Symposium of Algorithms (ESA) even before he had completed his master thesis that solved an important long-standing open problem.

I truly enjoy supervising students and I think that under the right guidance they can be the best research collaborators.

I am also excited about supervising two female students as I have experienced the difficulties in finding the right mentors and developing a career in an area where there are very few females in leading positions.

Major collaborations

Co-authors: V. Conitzer (**Duke University**), G. Christodoulou (**University of Liverpool**), E. Koutsoupias (**University of Oxford**), A. Fiat (**University of Tel Aviv**), A. Karlin (**University of Washington**), M. Henzinger (**University of Vienna**), E. Pountourakis (**Northwestern**), A. Kovacs (**University of Frankfurt**), C.Ventre (**University of Essex**)

Advisors: V.Conitzer (**Duke University**), E. Koutsoupias (**University of Oxford**), P.Viappiani (**CNRS France**), P. Perny (**LIP6, Pierre and Marie Curie University**), M. Henzinger (**University of Vienna**), K. Mehlhorn (**Max Planck Institute**), Y. Moschovakis (**UCLA and University of Athens**), C.Ventre (**University of Essex**)

Teaching Activities

Module leader

"Mathematics for Information Security", DeMontfort University (Summer 2017)

I also had the idea to voluntarily design organize and teach an informal course: **"Crash course on Bayesian and Approximate Mechanism Design"**, December 2010-January 2011 (organized and presented together with Yiannis Giannakopoulos, Katia Papakonstantinopoulou and George Pierrakos), University of Athens, Department of Informatics

"**Algorithmic Game Theory"**, Universität des Saarlandes (Summer 2010)

http://www.mpi-inf.mpg.de/departments/d1/teaching/ss10/Lecture_GameTheory/index.html

Guest Lectures

"Linear Programming", (Vincent Conitzer) Duke University (Winter 2012)

"Game theory" (Monika Henzinger) University of Vienna (Summer 2012)

"Topics in Game theory" (Kurt Mehlhorn and Chien Chung Huang) Universität des Saarlandes (Winter 2010)

„Computational Finance: Portfolio Theory" (Harokopeio University Greece 2016)

Teaching assistant

"**Mathematics for Informatics and Telecommunications"**, University of Athens, (2007)

"**Topics in Game Theory and Computation",** University of Athens, (Summer 2007, 2008)

"**Probabilistic Algorithms"** University of Athens, (Summer 2006)

"**Algorithms and Complexity"**, University of Athens (Winters 2004, -05, -06, -07, -08, -09)

"**Computability"**, University of Athens (Winter 2003)

"**Algorithmic Game Theory"**, Universität des Saarlandes, Germany (Summer 2010)

Organization of Conferences, Workshops, Events:

Among other seminars I organized at **Duke** an **interdisciplinary seminar between the the Fuqua School of Business and the departments of Computer Science, Economics, sponsored by Yahoo!** *Key responsibilities:* coordinating the various involved parties and participating in the selection and invitation of external speakers, scheduling appointments with faculty and students, advertising the talks, coordinating with the administrative staff for booking and ordering of Hotels and meals and social events.

I also organized a Crash course on Bayesian and Approximate Mechanism Design, December 2010-January, University of Athens, Department of Informatics.

Profile

Relevant Publications monographs/chapters/invited presentations, and/or products, services, or other achievements relevant to the proposal:

Selected Talks

- **Invited Talk: Vanderbilt Mechanism Design Conference**, USA, September 17–18, 2016
- **Invited Talk: New Challenges in Scheduling Theory, Centre CNRS** "Paul-Langevin", Aussois, France, March 29 - April 2, 2016
- **Invited Talk: Microsoft Research Cambridge**, UK, March 2014
- **Invited Talk: INFORMS 2013 in Minneapolis, MN, held on Oct.** 2013
- **Invited Talk: Stony Brook Workshop on Computational Game Theory**, July 2013
- **Invited Talk: International Symposium on Mathematical Programming'12,** Berlin
- **Invited Talk: Innovations in Algorithmic Game Theory** workshop, 22-26 May 2011, Hebrew University of Jerusalem

Papers in Conferences

- Towards a characterization of budget-feasible mechanisms with monitoring, Paolo Serafino, Carmine Ventre and Angelina Vidali, submitted 2017, preliminary version at ACAC'16

- A characterization of n-player strongly monotone scheduling mechanisms, Annamaria Kovacs and Angelina Vidali, 25th International Joint Conference on Artificial Intelligence (**IJCAI'15**)

- Mechanism Design for Scheduling with Uncertain Execution Time. Vincent Conitzer and Angelina Vidali 26th Conference on Innovative Applications of Artificial Intelligence (**AAAI'14**)

- Approximating Utopia: Strong Truthfulness and Externality-Resistant Mechanisms

  Amos Fiat, Anna Karlin, Elias Koutsoupias and Angelina Vidali, 4th Innovations in Theoretical Computer Science Conference (**ITCS'13**) (citations: 6)

- Extending characterizations from subdomains to domains. Angelina Vidali, 7th Workshop in Internet and Network Economics, (**WINE '11**) (citations: 1)

  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.** (citations: 2)

- 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**. (citations: 5)

- The Geometry of Truthfulness. Angelina Vidali, (**WINE '09**), 5th Workshop in Internet and Network Economics. (citations: 2)

- A characterization of 2-player mechanisms for scheduling. George Christodoulou, Elias Koutsoupias and Angelina Vidali, 16th Annual European Symposium on Algorithms (**ESA '08**). (citations: 20)

- 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**). (citations: 49)

- A lower bound for scheduling mechanisms. George Christodoulou, Elias Koutsoupias and Angelina Vidali, 18th ACM-SIAM Symposium on Discrete Algorithms (**SODA'07**). (citations: 61)

Papers in Journals

- Multi-parameter mechanism design under budget and matroid constraints. Monika

Henzinger and Angelina Vidali, submitted to **Theoretical Computer Science** (under revision).

- A $1+\phi$ lower bound for truthful scheduling mechanisms. Elias Koutsoupias and Angelina Vidali, **Algorithmica,** 2013

- 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**

- A lower bound for scheduling mechanisms. George Christodoulou, Elias Koutsoupias and Angelina Vidali, **Algorithmica 55(4): 729-740, 2009.**

List of relevant previous projects or activities, connected to the subject of this proposal:

Ability to get funding and manage projects:

Individual Projects Alexander von Humboldt Foundation (Germany), 2010-2012

Runner-up for an Austrian Academy of sciences project (best project in computer science, the grant selected was from a different discipline, 2013)

Experience as a Researcher in Projects Key responsibilities: Preparation of reports, participation in international meetings, communicating and collaborating with the partners of the project to determine the common points, writing parts of the proposal.

- 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

Program Committee Member

- Fifth International Conference on Algorithmic Decision Theory **ADT 2017**
- 26th International Joint Conference on Artificial Intelligence (**IJCAI'16**)
- 28th Conference on Innovative Applications of Artificial Intelligence (**AAAI'16**)
- Workshop on Algorithmic Game Theory of the 25th International Joint Conference on Artificial Intelligence (**IJCAI'15**)
- 25th International Joint Conference on Artificial Intelligence (**IJCAI'15**)
- 14th ACM Conference on Electronic Commerce (**EC'13**).

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.**

Workshops and Seminars

**Professional development seminars in: Negotiation strategies, Leadership skills,
Career Development, Presentation Skills and Group Coaching**, University of Vienna, '11

Other

Programming Languages **C, JAVA, python, pascal, fortran, SQL**

Mathematical packages **Mathematica, latex, Matlab and Maple**

Proficient in various computer programs: **Excel, Word, Powerpoint, Drawing & Image
processing: Corel Draw, Adobe Photoshop, Sound processing: Soundforge, Web page
construction: Dreamweaver**

Languages

- **Greek** native
- **English** Teaching proficiency, lived in UK and US for 3 years (Cambridge Proficiency)
- **German** Teaching proficiency, also lived in Germany and Austria for 3 years (Grosses
  Deutsches Sprachdiplom, Goethe-Institut).
- **Spanish** Fluent (Diploma Intermedio, Instituto Cervantes).
- **French** Intermediate knowledge (lessons for 6 years and lived in France for a year).
- **Norwegian** elementary (took lessons for 1 semester)
- **Italian** elementary