



Angelina Vidali

Date of birth: 10/08/1981 | Nationality: Greek | Gender: Female |

(+30) 6977927526 | angelina.vidali@gmail.com | www.vidali.info |

Other: angvid | Skype: angelina.vidali |

25th Martiou 35, Palaio Irakleio, 14122, ATHENS, Greece

● WORK EXPERIENCE

01/09/2018 – 31/03/2020

POSTDOCTORAL RESEARCH ASSOCIATE – IOHK Research Edinburgh and University of Athens, Department of Informatics

workload 100%

IOHK Research: Research and Development in Incentives and Auctions for **Distributed Ledgers, Mining pool formation**, Auctions on **Blockchain**

University of Athens: Research in **Differential Privacy, AI** and **Cryptography**, EU Project on **Data Management for Healthcare**

Athens, Greece

07/02/2017 – 30/03/2018

ACADEMIC FELLOWSHIP (EARLY CAREER) – De Montfort University, UK

workload 100%

Research in the **Cyber-security Group**

Teaching:

Applied Mathematics,

Introduction to C++ (3 times)

Mathematics for Communications (for the British Telecom Cybersecurity Apprenticeship) (twice)

Leicester, United Kingdom

01/12/2017 – 31/01/2018

FINANCIAL RISK ANALYST – Ernst and Young

workload 100%

Project: **Data analysis with SQL for finance** (**IFRS9 impact assessment** to be delivered to the European Central Bank for a major greek bank)

Athens, Greece

01/10/2015 – 30/09/2016

POSTDOCTORAL RESEARCHER – University of Teesside

workload 100%

EPSRC Project Research in **AI and computational macroeconomics**, facility location without money, budget-feasible **mechanism design with verification**

Middlesbrough, United Kingdom

01/10/2014 – 30/09/2015

POSTDOCTORAL RESEARCH ASSOCIATE – Pierre and Marie Curie University, LIP6, Oct 2014-Sept. 2015

workload 100%

Research in **AI recommendation systems and utility elicitation**

PARIS, France

01/09/2012 – 31/08/2014

POSTDOCTORAL RESEARCH ASSOCIATE – Duke University, Department of Computer Science

workload 100%

Research in **Artificial Intelligence and Computational Microeconomics Project: Mechanism Design with verification**

organization of an interdisciplinary seminar between **computer science and economics sponsored by Yahoo! Research**

Durham, United States

01/12/2010 – 01/08/2012

POSTDOCTORAL RESEARCHER DEC. 2010-AUG. 2012 – University of Vienna, Department of Informatics

workload 100%

WWTF Project Challenges in **Sponsored Search Auctions**

Vienna, Austria

01/09/2009

POSTDOCTORAL RESEARCH FELLOW – Max-Planck Institut für Informatik

workload 100%

Research in the **Algorithms Group**

Teaching: Game Theory Course (voluntary)

Alexander von Humboldt Fellow (Individual Research Project)

Saarbrücken, Germany

01/09/2005 – 31/08/2009

SENIOR RESEARCHER IN EU AND NATIONAL PROJECTS – University of Athens, Department of Informatics

workload 100%

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. (**distributed sensor networks**)

- EU FP7 Project, AEOLUS, Algorithmic Principles for Building Efficient Overlay Computers (**supercomputing**)
- PENED Project of the Greek General Secretariat for Research and Technology

Athens, Greece

● EDUCATION AND TRAINING

01/10/2005 – 17/06/2009 – ATHENS, Greece

PhD – University of Athens, Department of Informatics

PhD (Hons.) Advisor: Elias Koutsoupias, Title: “**Game-theoretic analysis of networks**”.

01/10/2003 – 30/09/2005 – Athens, Greece

Masters Degree – University of Athens

(2 year degree)

Logic and Theory of Algorithms and Computation

(Honors) Rank 1st

Thesis: "Average Case Analysis of the Euclidean Algorithm" advisor Yiannis Moschovakis (My Thesis is on average case analysis of **algorithms for number theory** and specifically on the Euclidean Algorithm for Division which lies on the **foundations of the RSA** and relevant **cryptosystems**.)

courses most relevant to the call: **Cryptography, Algorithms Complexity and Data Structures, Computational Geometry, Bioinformatics, Game Theory.**

01/09/1999 – 30/09/2003 – Athens, Greece

Diploma in Mathematics – University of Athens, Department of Mathematics

(4 year degree, Now equivalent to bachelor+1 year master's degree)

(Honours) top 1%

Courses most relevant to the call:

cryptology, coding theory, economics, several informatics and programming courses

01/01/2003 – 30/06/2003 – Vienna, Austria

Erasmus program exchange semester – Technical University of Vienna, Department of Mathematics

23/05/2011 – 19/06/2011 – Jerusalem, Israel

Invited Research Stay – Hebrew University, Center for Advanced Studies

● LANGUAGE SKILLS

Mother tongue(s): **GREEK**

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2
GERMAN	C2	C2	C2	C2	C2
SPANISH	C2	B2	C2	C2	B2
FRENCH	B2	B2	B2	B2	B1
NB	A1	A1	A1	A1	A1
ITALIAN	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● DIGITAL SKILLS

Programming Languages

Machine learning algorithms | SQL | C C++ | R | Fortran | Object Oriented Programming language (Java and Python) | Matlab | PYTHON | Microsoft SQL server | Wolfram Mathematica | Scientific authoring framework LaTeX

Other

Microsoft Office | Twitter | Skype for Business | Facebook | Social Media | Zoom | Google Drive

● DRIVING LICENCE

Driving Licence: **B**

● ORGANISATIONAL SKILLS

Organisational skills

Leadership and management experience in projects:

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

Experience in Management and Research in EU Project Networks

- Gender and Inclusiveness Officer: Algorithmic Theory of Network games ('19-)
- Vice-Leader of WG 1: Algorithmic Theory of Network games ('17-'19)and

Management Committee member of COST Action CA16228 OC-2016-2-21673 - European Network for Game Theory. 2017-

- 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

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.

● COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

Excellent teamwork and communication skills

Several collaborators, Ease in giving Presentations, Passionate about Science

Communication, keep developing by Reading about Management Psychology and participating in Seminars and Coaching sessions

Professional development seminars in:

Negotiation strategies,

Leadership skills,

Career Development,

Presentation Skills,

Group Coaching

University of Vienna, '11, DMU '17, Duke University

As a runner up of the Famelab Contest I participated in a Seminar in Science

Communication, British Council

● PRIZES

Prizes

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)

● SCHOLARSHIPS AND TRAVEL GRANTS

Scholarships and Travel Grants

Scholarships

- 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), June, 2005
- Erasmus (European Commission exchange program), summer semester 2003

● **SELECTED INVITED TALKS**

Selected Invited 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: "Mechanism Design for Cloud Computing and Crowdsourcing", 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 (ISMP) '12, Berlin
- Invited Talk: Innovations in Algorithmic Game Theory workshop, 22-26 May 2011, Hebrew University of Jerusalem

- **PUBLICATIONS IN ICT CONFERENCES AND JOURNALS**

Publications in ICT Conferences and Journals

Papers in Conferences

- Truthfulness on a Budget: Trading Money for Approximation through Monitoring, Paolo Serafino, Carmine Ventre and Angelina Vidali, International 18th Conference on Autonomous Agents and Multiagent Systems (also invited for fast track publication in AGNT as it was regarded as in the premier group of papers that appeared in AAMAS) ([AAMAS'19](#))
- 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

- "Truthfulness on a Budget: Trading Money for Approximation through Monitoring" Paolo Serafino, Carmine Ventre, Angelina Vidali accepted in Autonomous Agents and Multi-Agent Systems (AGNT) 2019
- 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.

● PROGRAM COMMITTEE MEMBER IN INTERNATIONAL ICT CONFERENCES

Program Committee Member in International ICT Conferences

- 17th European Conference on Multi-Agent Systems (EUMAS'20)
- International Conference on Autonomous Agents and Multiagent Systems ([AAMAS'18](#))
- 16th Workshop on Approximation and Online Algorithms (WAOA'18)
- 26th 28th 29th Conference on Innovative Applications of Artificial Intelligence (AAAI'16 AAAI'17, AAAI'18))
- 17th International Conference on Autonomous Agents and Multiagent Systems AAMAS'18
- Fifth International Conference on Algorithmic Decision Theory ADT 2017
- 26th International Joint Conference on Artificial Intelligence (IJCAI'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

Reviewer

[IEEE Symposium on Security and Privacy 2020](#) (IEEE S&P 2020), 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*.

● TEACHING

Teaching

Applied Mathematics, Module leader, (Undergrad), De Montfort University, UK, 2017

Introduction to C++, (Undergraduate labs), De Montfort University, UK, 2017-2018

"Mathematics for Communications", (Discrete Mathematics, logic, intro to databases and SQL, number theory and cryptography) British Telecom Apprenticeship on Security, May 2017, De Montfort University, UK

Voluntarily designed organized and taught part of the course: "Crash course on Bayesian and Approximate Mechanism Design", December 2010-January 2011, University of Athens, Department of Informatics

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

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)

● SUPERVISION OF STUDENTS

Supervision of 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
- Supervision of 10 undergraduate projects in AI, programming, statistics, Cybersecurity, De Montfort University 2017-18