



Angelina Vidali

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WORK EXPERIENCE

21/09/2021 – 30/04/2022 Athens, Greece

PART-TIME LECTURER IN MATHEMATICS AND STATISTICS DERE E

Mathematics for the Liberal Arts, Applied Statistics

21/10/2020 – CURRENT Athens, Greece

MATHEMATICS PROFESSOR HIGH SCHOOL GREEK MINISTRY OF EDUCATION

31/08/2018 – 30/03/2020 Athens, Greece

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**

06/02/2017 – 29/03/2018 Leicester, United Kingdom

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)

30/11/2017 – 30/01/2018 Athens, Greece

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)

30/09/2015 – 29/09/2016 Middlesbrough, United Kingdom

POSTDOCTORAL RESEARCHER UNIVERSITY OF TEESIDE

workload 100%

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

30/09/2014 – 29/09/2015 PARIS, France

POSTDOCTORAL RESEARCH ASSOCIATE PIERRE AND MARIE CURIE UNIVERSITY, LIP6, OCT 2014-SEPT. 2015

workload 100%
Research in **AI recommendation systems and utility elicitation**

31/08/2012 – 30/08/2014 Durham, United States

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**

30/11/2010 – 31/07/2012 Vienna, Austria

POSTDOCTORAL RESEARCHER DEC. 2010-AUG. 2012 UNIVERSITY OF VIENNA, DEPARTMENT OF INFORMATICS

workload 100%

WWTF Project Challenges in **Sponsored Search Auctions**

31/08/2009 Saarbrücken, Germany

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)

31/08/2005 – 30/08/2009 Athens, Greece

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

● EDUCATION AND TRAINING

30/09/2005 – 16/06/2009 ATHENS, Greece

PHD University of Athens, Department of Informatics

PhD (Hons.) Advisor: Elias Koutsoupas, Title: "**Game-theoretic analysis of networks**".

30/09/2003 – 29/09/2005 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 is the oldest known algorithm and lies on the **foundations of the RSA** and relevant **cryptosystems**.)

31/08/1999 – 29/09/2003 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%

31/12/2002 – 29/06/2003 Vienna, Austria

ERASMUS PROGRAM EXCHANGE SEMESTER Technical University of Vienna, Department of Mathematics

22/05/2011 – 18/06/2011 Jerusalem, Israel

INVITED RESEARCH STAY Hebrew University, Center for Advanced Studies

● LANGUAGE SKILLS

Mother tongue(s): **GREEK**

Other language(s):

	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

● ADDITIONAL INFORMATION

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-'21)
- 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

Training in Psychoanalysis:

Introductory lectures in Psychoanalysis, Hellenic Psychoanalytic Society 2020-2021

"Avaton" Educational Program: Psychodynamic Clinical theory of Psychosomatic Disease, lecturer: Savvas Savvopoulos, Galinos Institute, 2020-2022

Lectures in Psychoanalysis, lecturer Vassilis Dimopoulos, Galinos Institute, 2021-2022

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)
- Literary Prize in the European contest "Young Readers of Europe" from the National Book Center of Greece (EKEBI) 2000 for a short text: "Ο πύργος" (dedicated to the book "Die Schloss" of Franz Kafka).
- Prize in the 45th European-19th Panhellenic- contest of the European Day of Schools (participation with essay on the subject: "Peace in Europe") (1998)

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 $\frac{1}{\phi}$ 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)

Journals

Write here the descPapers in Journals

- "Truthfulness on a Budget: Trading Money for Approximation through Monitoring" Paolo Serafino, Carmine Ventre, Angelina Vidali, (AGNT) [Auton. Agents Multi Agent Syst. 34\(1\): 5 \(2020\)](#)
- A $\frac{1}{\phi}$ 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

- 19th European Conference on Multi-Agent Systems (EUMAS'22)
- 18th European Conference on Multi-Agent Systems (EUMAS'21)
- 17th European Conference on Multi-Agent Systems (EUMAS'20)
- International Conference on Autonomous Agents and Multiagent Systems ([AAMAS'18](#))
- 26th 28th 29th Conference on Innovative Applications of Artificial Intelligence (AAAI'16 AAAI'17, AAAI'18))
- 16th Workshop on Approximation and Online Algorithms (WAOA'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

Machine Learning, NTUA, 2022 (upcoming)

Mathematics for the Liberal Arts, Applied Statistics, Deree, 2021-2022

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)

"Algorithmic Game Theory", Universität des Saarlandes, Germany (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)

Private Tutor:

Mathematics and Programming in Python for High School Students 2005-2009