

Theofrastos Mantadelis, Ph.D, Curriculum Vitae.

Theofrastos Mantadelis gained his Ph.D from the Katholieke Universiteit of Leuven. Since 2008, he has been doing research in the field of Artificial Intelligence and more specifically in Logic programming, optimisations, statistical relational learning, compilation of graphical models, complexity theory, satisfaction problems, abstract argumentation frameworks and recommendation systems. He has worked for the Katholieke Universiteit of Leuven, University of Porto, University of Perugia and the Open University of Cyprus. He has been involved in several European projects and has published over 30 articles in international journals and conferences. His work has been published in international journals including, *International Journal of Approximate Reasoning*, *Journal of Theory and Practice of Logic Programming*, *Journal of Ambient Intelligence and Humanized Computing* and *Journal of Biomedical and Health Informatics*. Additionally, his work has been presented in international conferences such as, *European Conference on Artificial Intelligence*, *International Conference on Logic Programming*, *International Conference on Logic for Programming, Artificial Intelligence and Reasoning*. Lately he is interested in the application of Artificial Intelligence in agriculture and has founded the portal dimetra.eu.

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Personal Details

Date of Birth:
February 1, 1981

Address:
Prevezis 11 Flat 36, 1065
Lefkosia, Cyprus

Levadias 11 A. Glifada
165 61, Greece

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+306949035907

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Languages

Greek: ●●●●●
English: ●●●●●
Portuguese: ●●
Italian: ●

Programming

C: ●●●●●
Prolog: ●●●●●
Python: ●●●●●
.NET: ●●●●●
Java: ●●●●
SQL: ●●●●
PHP: ●●●●
Matlab: ●●●●
Very competent at Programming

Computing Skills

Git
CVS
Subversion (SVN)
Docker
Linux
Windows
Microsoft Office
Open Office
LaTeX

Other Skills

Excellent written and verbal communication skills

Excellent presentation skills

Confident, articulate, and professional speaking

Good at time management

Teamwork

Activities

Traveling
Theater
Fencing
Chess
Role Playing Games
Water Sports

Artificial Intelligence Consultant

9/2017 – present: Freelancer: Artificial Intelligence Consultant

9/2020 – present: AgroFair Crown Rot Prediction
- Independent Contractor, remotely
- Research, design and implementation of the A.I. System
- <http://www.dimetra.eu/>

1/2017 – present: NeuroLandscape (NGO)
- Scientific Board Member & Research Consultant
- <https://neurolandscape.org/>

4/2020 – 8/2021: Nable Solutions Assistant
- <https://solve.mit.edu/challenges/digital-inclusion/solutions/46596>
- https://devpost.com/software/assistant-volunteer?ref_content=user-portfolio&ref_feature=in_progress (won 3rd position)
- <https://devpost.com/software/assistant-volunteer-1tmoyi>

Software Engineering

9/2017 – present: Projects developed as a Contractor

AgroFair Crown Rot Consultant: Fully automated A.I. system (Python, C#.NET) (<http://www.dimetra.eu/>)
CLASS: A.I. Landscape evaluator (Matlab) (<http://neurolandscape.org/class-software/>)

4/2008 – 01/2020: Developing Research Software

Main Author of:

CP-Net Preference Detector (demo available upon request) (C, Prolog, PHP)
MetaProbLog & SimpleCUDD (demo available upon request) (C, Prolog)
One of the Main Authors of ProbLog 1 (Prolog) (<https://dtai.cs.kuleuven.be/problog/problog1/problog1.html>)

Contributions in:

YAP Prolog: Several libraries and packages. (<http://www.dcc.fc.up.pt/~vsc/yap/>)
ProbLog 2: Variable compaction code. (<https://dtai.cs.kuleuven.be/problog/>)
Logtalk: Flags library and porting of ProbLog 1. (<http://logtalk.org/>)
ConArg: Probabilistic Part. (<http://www.dmi.unipg.it/conarg/>)

9/2007 – 4/2008: Team Leader (Colruyt Group - Colruyt Informatics, Belgium)

Duties:

*Design and development of batch cycles for the sales department.
Design and development of online administration applications.
Design and coordination of development with overseas.*

Training:

*Trained in PL1 programming language.
Trained in SQL database query language.
Trained to develop UNIX server to terminal online and batch applications.*

9/2003 – 10/2006: .NET Software Developer (SiEBEN Innovative Solutions, Genco Power S. A., Greece)

1/2005 – 1/2006: Military Service in Informatics Department, Greek Martial Navy, Greece

Research Experience

10/2012 – 1/2020: Senior Researcher (Post-Doc)

1/2019 – 1/2020: Open University of Cyprus & RISE: Research center for Interactive media Smart systems and Emerging technologies, Cyprus.

Project & Managment: WeNet Internet of Us (<https://www.we-net.eu/>).

International Publications: Journal 1. Copyrighted Systems 1.

11/2017 – 1/2019: University of Perugia, Italy.

Scholarships/Projects Awarded: Argumentation for ChatBot 4.0, Computational and Persuasion Aspects in Argumentation (ComPAARg)

International Publications: Conference 2, Workshop 1, Copyrighted Systems 1.

11/2013 – 6/2017: University of Porto, Portugal.

Scholarships/Projects Awarded: SIBILA (NORTE-07-124-FEDER-000059), Concurrency in Probabilistic Logic Programming (AE2015-0063), Concurrency and Optimizations in Probabilistic Logic Programming (SMILE5-PL02024)

Project Management: Helped with the co-ordination of SIBILA project.

International Publications: Journal 2, Conference 6, Workshop 4, Other 1, Copyrighted Systems 3.

10/2012 – 4/2013: Katholieke Universiteit of Leuven, Belgium.
Scholarships/Projects Awarded: GOA/08/008 Probabilistic Logic Learning
International Publications: Conference 1, Copyrighted Systems 1.

4/2008 – 10/2012: **Junior Researcher (PhD)** (Katholieke Universiteit of Leuven, Belgium)
International Publications: Journal 1, Conference 5, Workshop 5, Others 3, Copyrighted Systems 2.
Scholarships/Projects Awarded: GOA/08/008 Probabilistic Logic Learning

Teaching Experience

10/2021 – present: **Professor** (Ledra College, Cyprus)
Teaching Assignment: Software Engineering Principles and Techniques (2nd Semester), Introduction to Web Application Development (php, SQL) (1st Semester), HTML5 and CSS3 (2nd Semester), Introduction to the Internet and e-Business (3rd Semester)

2018 – present: **Research Associate** (Maastricht School of Management (MSM), Netherlands)
Teaching Assignment: Digital Transformation (online course)
Co-Supervising DBA Thesis
Teaching Summer School: Machine Learning & Data Mining with Python

11/2013 – 6/2017: **Senior Researcher (Post-Doc)** (University of Porto, Portugal)
Co-Supervising Ph.D. Thesis

4/2008 – 10/2012: **Junior Researcher (PhD)** (Katholieke Universiteit of Leuven, Belgium)
Teaching Assistant: [Fundamentals of Artificial Intelligence](#)
Ombudsman for Master of Artificial Intelligence
Master Thesis Adviser:
2011-2012 Joachim Jansen - Study of Most Probable Shortest Path Problems in ProbLog
2011-2012 Di Feng - Investigating Prolog Based Unit Test Frameworks
2010-2011 Tom Van Wemmel - Re: mail - Learning relational models that classify emails
2009-2010 Shterionov Dimitar - Querying performantly in several possible words
2008-2010 Kominis Filippou - Soft constrain satisfaction with Binary Decision Diagrams

Education

2008 – 2012: **PhD in Computer Science**, Catholic University of Leuven, Belgium,
Thesis: Efficient Algorithms for Prolog-Based Probabilistic Logic Programming

2006 – 2007: **MSc in Artificial Intelligence**, Catholic University of Leuven, Belgium,
Thesis: Software Security through Targeted Diversification

2000 – 2005: **Diploma in Electronic Calculating Systems Engineering**, Polytechnic University of Piraeus, Greece,
Thesis: Digital Image Treatment, Abstraction of Noise with Wavelets

Selected Publications

- IJAR 2020:** Mantadelis T., Bistarelli S. - Probabilistic Abstract Argumentation Frameworks, A Possible World View.
- JELIA 2019:** Bistarelli S., Mantadelis T. - A Possible World View and a Normal Form for the Constellation Semantics.
- JBHI 2018:** Jorge Oliveira, Francesco Renna, Theofrastos Mantadelis, Miguel Coimbra – Adaptive Sojourn Time HSMM for Heart Sound Segmentation.
- PADL 2017:** Mantadelis T., Rocha R. – Using Iterative Deepening for Probabilistic Logic Inference.
- EMBC 2016:** Oliveira J., Mantadelis T., Coimbra M. – Why should you model time when you use Markov Models for heart sound analysis.
- LPNMR 2015:** Mantadelis T., Shterionov D., Janssens G. – Compacting Boolean Formulae for Inference in Probabilistic Logic Programming.
- TPLP 2014:** Mantadelis T., Rocha R., Moura P. – Tabling, Rational Terms, and Coinduction Finally Together!
- ICLP 2013:** Shterionov D., Mantadelis T., Janssens G. – Pattern-Based Compaction for ProbLog Inference.
- JAIHC 2012:** Paridel K., Mantadelis T., Yasar A., Preuveneers D., Janssens G., Vanrompay Y., Berbers Y. – Analyzing the efficiency of context-based grouping on collaboration in VANETs with large-scale simulation.

Invited Presentations/Seminars

- 2/5/2018: University of L'Aquila** – Invited Seminar – Probabilistic Logic Programming
- 2/10/2017: University of West Attica** – Invited Seminar – Probabilistic Logic Programming
- 6/11/2015: University of A Coruña** – Invited Talk – Efficient Probabilistic Logic Programming and MetaProbLog
- 25/3/2015: University of Porto** – LIAAD Seminar – MetaProbLog for Probabilistic Logic Programming and Learning (<http://www.liaad.up.pt/news-events/seminarios-do-liaad>)
- 2/7/2014: University of Porto** – CRACS Open Day – Cycles in Logic Programming (<http://cracs.fc.up.pt/node/5296>)
- 30/11/2012: Catholic University of Leuven** – PhD Defence – Efficient Algorithms for Prolog Based Probabilistic Logic Programming
- 13/12/2011: Catholic University of Leuven** – DTAI Seminar – On the Analysis of Large Distributed Systems with Prolog (<https://dtai.cs.kuleuven.be/seminars/dtai-seminar-analysis-large-distributed-systems-prolog-theofrastos-mantadelis>)
- 25/10/2010: Catholic University of Leuven** – DTAI Seminar – Probabilistic Logic Programming (<https://dtai.cs.kuleuven.be/seminars/dtai-seminar-probabilistic-logic-programming-problog>)
- 28/10/2009: University of Porto** – CRACS Seminar – Efficient Probabilistic Logic Learning (<http://cracs.fc.up.pt/node/4304>)