

# CURRICULUM VITAE

AMALIA NIKOLOPOULOU

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## ***Work Experience***

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January 2017 **Postdoctoral Researcher**

– *Present* Athens University of Economics and Business, Department of Management Science and Technology, Management Science Laboratory

Evelpidon 47A & Lefkados 33, 11362 Athens, Greece

- *Principal subjects covered:* Operations Research, Logistics and Supply Chain Management, Combinatorial Optimization, Optimization Algorithms

May 2017 **Project Manager**

– Dec 2019 Institute of Communication & Computer Systems (ICCS), NTUA

9, Iroon Polytechniou Str., 15773 Zografou Athens, Greece

- Project management of ongoing H2020 European-funded research projects for transport and logistics (COREALIS, COG-LO, CLUSTERS 2.0)

2008 - 2009 **Researcher**

National Center of Scientific Research, Demokritos, Greece

*Main Activities:*

- Development of computational models for nanoparticle deposition
- Modeling of particle lung transport and deposition

2007 **Engineer Trainee** (3 month internship)

Dr D.A Delis SA - Merchant provider of polymer materials

*Main Activities:*

- Assistance with new recipe processing trials of elastomer materials
- Execution of test-production to evaluate the quality of elastomer materials

## **Education**

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- 2012 –2016      **PhD in Operations Research – Transportation Logistics Optimization**  
Athens University of Economics and Business, Department of Management Science and Technology, Management Science Laboratory  
*Principal subjects covered:*  
Operations Research, Combinatorial Optimization, Optimization of Transportation Logistics, Heuristic Computing, Optimization Algorithms  
Dissertation Title: Optimization methodologies for multi-echelon vehicle routing problems with transshipment facilities.
- 2009 – 2011      **Master of Science in Chemical Engineering (MSc)**  
Rutgers, the State University of New Jersey, USA  
*Principal subjects covered:* Supply Chain Management Optimization, Supply Chain Management, Supply Chain Simulation
- 2003 – 2008      **Diploma of Chemical Engineering (B.Eng)**  
National Technical University of Athens, School of Chemical Engineering, Process Analysis & Plant Design, Athens, Greece  
Specialization: Process Analysis and Plant Design Process Systems Engineering & Development

## **Teaching Experience**

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- 2016 - Present      *Athens University of Economics and Business*
- Data, Models and Decisions - International MBA Program (full and part-time)
  - Data, Models and Business Decisions in Shipping – MSc in International Shipping, Finance and Management (full and part-time)
  - Operations Research – MBA PT
- 2022 – Present      *National and Kapodistrian University of Athens*
- Supply Chain Management (core undergraduate course)
  - Quality and Safety Management in Shipping (selective undergraduate course)
- 2019 - Present      *Hellenic Open University*
- Logistics Systems (SCM02) – MSc in Supply Chain Management (SCM)
- 2017 - 2019      *Hellenic Open University*
- Advanced Quantitative Methods for Managers (MBA 60) - MBA Program

2016 - 2018

*Athens University of Economics and Business*

- Quantitative Methods in Management - Executive MBA Program
- Large Scale Optimization - MSc in Business Analytics (full and part-time)
- Large Scale Optimization - MBA Program (full and part-time)

2011

*Rutgers, the State University of New Jersey, USA*

(fall semester) Chemical Engineering Analysis I - BSc in Chemical and Biochemical Engineering

### ***Publications in International Refereed Journals***

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1. Zachariadis, E.E., Nikolopoulou A.I, Manousakis E.G., Repoussis, P.P. and Tarantilis, C.D. (2022). The Vehicle Routing Problem with Capacitated Cross-Docking, *Expert Systems with Applications* 196.
2. Nikolopoulou AI, Repoussis PP, Tarantilis CD and Zachariadis EE (2017) Moving products between location pairs: Cross-Docking versus Direct-Shipping. *European Journal of Operational Research* 256(3):803-819.
3. Nikolopoulou AI, Repoussis PP, Tarantilis CD and Zachariadis EE (2016) Adaptive memory programming for the many-to-many vehicle routing problem with cross-docking, *Operational Research - An International Journal* 1-38.
4. Nikolopoulou AI, Ierapetritou MG (2012) Hybrid simulation based optimization approach for supply chain management. *Computers and Chemical Engineering* 47:183.
5. Nikolopoulou AI, Ierapetritou MG (2012) Optimal design of sustainable chemical processes and supply chains: A Review. *Computers and Chemical Engineering* 44:94.
6. Nikolopoulou AI, Ierapetritou MG (2011) Integration of operation planning and scheduling in supply chain systems: A review. Chapter 1, In: *Scheduling problems and solutions*, Nova Science Publishers.

### ***Publications/Presentations in Refereed Conferences***

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1. Nikolopoulou A.I., Zachariadis, E.E., Manousakis E.G., Repoussis, P.P. and Tarantilis, C.D. (2021). A metaheuristic approach for solving large scale vehicle routing problems with cross-docking and loading constraints, 31st European Conference on Operational Research (EURO), July 11-14, Athens, Greece

2. Zachariadis EE, Nikolopoulou AI, Repoussis PP and Tarantilis CD (2019). The Vehicle Routing Problem with Cross-docking under Cross-dock Capacity Restrictions, *30th European Conference on Operational Research (EURO 2019)*, June 23-26, Dublin, Ireland.
3. Tsimiklis G, Nikolopoulou AI, Morillo C, Khiari J, and Amditis A (2019). Big Data and Data Analytics for Ports of the Future (COREALIS), *6th Annual International Physical Internet Conference (IPIC2019)*, July 9-11, London, UK.
4. Nikolopoulou AI, Repoussis PP and Tarantilis CD (2018). The Vehicle Routing Problem with Cross docking and Capacity Smoothing Restrictions, *Seventh International Workshop on Freight and Logistics*, June 3-8, Cagliari, Sardinia.
5. Repoussis PP, Nikolopoulou AI and Tarantilis CD (2017). Tabu Search for the Vehicle Routing Problem with Cross-Docking and Loading Constraints, *POMS 28th Annual Conference*, May 5-8, Seattle, WA
6. Nikolopoulou AI, Repoussis PP, Tarantilis CD and Zachariadis EE (2016). Adaptive memory programming for the multi-product vehicle routing problem with cross-docking, *5th Meeting of the EURO Working Group on Vehicle Routing and Logistics optimization (Verolog)*, June 6-8, Nantes, France.
7. Nikolopoulou AI, Repoussis PP, Tarantilis CD and Zachariadis EE (2016). An adaptive memory programming framework for optimizing transportation activities between suppliers and customers with cross-docking, *5th International Symposium and 27th National Conference on Operational Research (HELORS)*, June 9-11, Athens, Greece.
8. Nikolopoulou AI, Repoussis PP, Tarantilis CD and Zachariadis EE (2015). Direct shipping vs. cross-docking for the distribution of products between supplier and customer pairs, *3rd Olympus International Conference in Supply Chains*, November 7-8, Athens, Greece.
9. Nikolopoulou AI, Repoussis PP, Tarantilis CD and Zachariadis EE (2015). Moving products between location pairs: consolidation against direct shipping, *6th International Workshop on Freight Transportation and Logistics*, June 1-5, Ajaccio, Corsica, France
10. Nikolopoulou AI, Repoussis PP, Tarantilis CD and Zachariadis EE (2014). Tabu search algorithm for the vehicle routing problem with cross – docking. *11th Conference of Management Science and Technology*, Department of Management Science and Technology, Athens University of Economics and Business, May 13, Athens, Greece.
11. Nikolopoulou AI, Repoussis PP and Tarantilis CD (2013). Multi-echelon and multi-source vehicle routing problems: A Review. *10th Conference of Management Science and Technology*,

*Department of Management Science and Technology, Athens University of Economics and Business, May 16, Athens, Greece.*

12. Nikolopoulou AI, Neofytou P, Housiadas C, Papazafiri P, Eleftheriadis K and Tran L (2009). Integration of two mathematical models for monitoring of biological doses from inhalation exposure to nano and fine particles in industrial workplace. *European Aerosol Conference*, Karlsruhe, Germany.
13. Demou E, Hellweg S, Nikolopoulou AI, Mitrakos D and Housiadas C (2008). Modelling the Uptake and Distribution in the Lungs of Engineered Nanoparticles during their Synthesis. *European Aerosol Conference*, Thessaloniki, Greece.

### **Projects**

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- Optimal Policies and Decision Support Tools for Multi-echelon Distribution Networks with Cross-docking (2018-2021), «1<sup>st</sup> Call for H.F.R.I. Research Projects for the support of Post-doctoral researchers », Hellenic Foundation for Research and Innovation
- COREALIS: Capacity with a positive environmental and societal footprint: ports in the future era, EC H2020 (768994), 2018-2021, Project Coordinator: Institute of Communication and Computer Systems (ICCS), NTUA, Greece
- Research Funding Program "Action 2: Support for postdoctoral researchers with a view to promote research, 2017-2018", Athens University of Economics and Business (AUEB).

### **Scholarships**

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| 2012 - 2016 | Scholarship for postgraduate studies (PhD) from the State Scholarships Foundation (I.K.Y) of Greece |
| 2009 – 2011 | Scholarship for postgraduate studies (MSc) from the State Scholarships Foundation (I.K.Y) of Greece |

### **Languages**

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- Greek (native language)
- English (proficiency)
- French (proficiency)

### **Computer Skills**

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- Programming Languages: C#, JAVA.
- Mathematical Programming and Optimization Software: MatLab, GAMS, IBM Cplex