

Curriculum Vitae

Golman Rahmanifar

1. PROFILE

I am a PhD student in Infrastructures And Transport at the Sapienza University of Rome, which is one of the prestigious universities in Italy (#171 QS). Currently, I am working as a researcher in the Traffic engineering and ITS Group in the Dipartimento di Ingegneria Civile Edile e Ambientale under supervision of Professor Gaetano Fusco and Professor Chiara Colombaroni.

I graduated master degree in transport system engineering with 110 cum laude on July 2021 from Sapienza University of Rome. For thesis, I had this opportunity to have cooperation with the University of Tecnológico de Monterrey of Mexico (#155 QS) to work on Dynamic optimization for city logistic . Prior to study my master's degree at Sapienza University, I was a supply chain planner in the Solico group in Iran and working on optimizing the supply chain flow of materials through data analysis and the establishment of new channels of distribution, consolidating material, and creating dedicated routes to maximize profitability.

My expertise lies mainly in the field of Traffic Engineering and Intelligent Transportation Systems, Modelling, supply chain management, etc. I am interested in solving challenging real-world optimization problems specifically in the field of industrial engineering Logistics and freight transport, to solve the world's challenges and investigate behavioral aspects of supply chain decision making and develop mathematical models to forecast flows or optimizes logistic networks.

2. Education

Phd Degree in Infrastructures And Transport

Sep 2019-July 2021

- The Sapienza University of Rome, Rome, Italy -**Rank: 171 QS**
- Traffic engineering and ITS group
- Supervisor: Gaetano Fusco and Professor Chiara Colombaroni

Master's Degree in Transportation System Engineering

Sep 2019-July 2021

- The Sapienza University of Rome, Rome, Italy -**Rank: 171 QS**
- **GPA: 110 cum laude**
- Graduated date: 29 July 2021
- Language course: English
- Scholarship: Lazio disco scholarship, Erasmus + Study, Erasmus + Traineeship
- Thesis Topic: A Dynamic Approach for Optimization of Municipal Waste Collection Routing Problem in The Context of Industry 4.0
- Supervisor: Prof. Gaetano Fusco
- Advisor: Prof. Chiara Colombaroni, Prof. Mostafa Hajiaghahi-Keshteli

Course: Traffic Engineering and ITS 30 cum laude

ERASMUS + Program Transportation System Engineering**Sep 2020 – Feb 2021**

- University of Zilina, Zilina, Slovakia.
- GPA: A (Excellent and outstanding performance).
- Language course: English.
- Scholarship: Erasmus + scholarship, MIUR, and EU scholarship.
- Courses: Technology of Cargo Transport, Controlling of the Railway Transport, Mechanics in Railway Transport, Nautical Safety.

Master's Degree in Industrial Engineering, Socio-Economics Systems Engineering Sep 2011-Aug 2014

- Mazandaran University of Science and Technology.
- GPA: 4.0 out of 4.0 (18.29 out of 20 in Iran Grading System, and ranked 2 in the class).
- Master's thesis: "System Dynamics simulation for Inventory Planning in Supply Chain Management.
- Courses: Integer Programming, Economics, System Dynamics, Simulation, Operational Research.

Bachelor's Degree in Industrial Engineering**Sep 2007– Aug 2011**

- Shomal University, IRAN
- GPA: 3.25 out of 4.0 (16.28 out of 20 in Iran Grading System, Ranked 3rd in GPA all students in Industrial Engineering, 2007)
- Thesis: Process Re-Engineering of Customer Relationship Management Model.

3. Professional History**Multi-Objective Optimization Internship****Mar 2021 – June 2021**

The Multi-objective optimization group of the University of Jyväskylä, Finland

- The Multi-objective optimization group of the University of Jyväskylä, Finland, is a part of the Faculty of Information Technology. The research interests of the group are focused on (nonlinear) multi-objective optimization in the presence of conflicting objectives, including:
- Method development, with a focus on interactive methods and evolutionary, hybrid methods;
- Software development;
- Real-world applications;
- Simulation-based problems;
- Data-driven problems (prescriptive analytics).

Supply Chain Planning Supervisor**Feb 2017 - Aug 2019**

Solico Group-Food manufacturing company, Iran

Production and Operations Control Department Supervisor**June 2014 – Jan 2017**

Beryan Goosht - Food manufacturing company, Iran

Regional B2B Sales and Marketing Supervisor**April 2012 - June 2014**

Solico Group-Food manufacturing company, Iran

4. Research Interest

- Traffic Engineering and ITS
- Transportation Modelling
- Supply Chain Management
- Sustainable Supply Chain
- Heuristic and Meta Heuristic Algorithms
- Mathematical Modeling

5. Language Skills

- Persian: Native
- English: IELTS Overall Band Score: B2
- Arabic: Novice

6. Teaching Experience

- Teaching Assistant, Arena Simulation Software, Solico Group, (Summer 2015)
- Teaching Assistant, Meta Heuristic Algorithm, (Fall 2014)
- Teaching Assistant, Programming for transportation engineering , (winter 2021)-SAPIENZA UNIVERSITY OF ROME
- Teaching Assistant, Freight engineering , (winter 2021)- SAPIENZA UNIVERSITY OF ROME

7. Computer Skills

- Programming: MATLAB, Lingo, Python, Access, Catia, Expert choice, Accounting Software
- Scientific: MSP, SAS, Excel (including macros), Visio, ED (simulation), Win QSB, MATLAB (fuzzy), Photoshop.

9. Publications

Book

- Process re-engineering of customer relationship management model with information technology, (Persian) ISBN:978-964-9962-69-6 Publishers: Shomal University, spring 2011 (with Dr. Ahmad Jafarzadeh Afshari and Mostafa Hosseinzade)

Paper

- Make span minimizing on multiple travel salesman problems with a learning effect of visiting time- WSEAS TRANSACTIONS on SYSTEMS and CONTROL Journal.
- System Dynamics for Inventory Planning in Supply Chain Management: A Case Study". International Journal of Sensing, Computing, and Control, Vol. 4, No. 2, 2014
- Two-objective allocation problem optimization for ATM with NSGA-II algorithm case study: Bank ", 5th international conference on Science and engineering on 13th December 2016 Paris-France
- Simulate the performance of the underlying variables in the supply chain using a dynamic systems approach, international management conference, Tehran – Iran- November 13, 2014
- Modeling of Customer relationship management with dynamics system approach, The first national conference system approach in Iran, Shiraz-Iran, 2013 (with A, Sherafat and M. Moradgholi)

10. Workshops

- Logistic and supply chain management (Master class Gold)
- EFQM excellent model, Tuv Rhineland, 16 hours, 17-18 May 2010
- Learn Python by Doing the Complete Python Course
- Machine Learning, Data Science and Deep Learning with Python
- ISO 9001:2008 Consultation training course (including ISO 9001:2008 Requirement, documentation and internal audit), Germanischer Lloyd, 40 hours
- Non-Linear Multi objective Optimization-20 hours-Jyvaskyla University of Finland

11. Honors and Awards

- **Ranked 3rd** among 25 master students in Mazandaran University of Science and Technology
- 4800 € scholarship for Erasmus Internship at Jyvaskyla University of Finland for 6 months Mar 2021
- scholarship for Erasmus study at Zilina University for 6 months, Sep 2020
- **Ranked 2nd** among 250 participants in Erasmus competition in faculty of civil and industrial engineering of Sapienza University, Dec 2020
- Lazio Disco scholarships for qualified and talented students, Sep 2020 and Sep 2019
- **The highest GPA (Top 5%)** master student award and Talent student opportunity
- **The highest GPA (Top 5%)** undergraduate student award and Talent student

References

- **Gaetano Fusco, Ph.D**
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