

GEORGIA-EVANGELIA (YOLA) KATSARGYRI

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Education

2016	MASSACHUSETTS INSTITUTE OF TECHNOLOGY Ph.D. in Electrical Engineering and Computer Science <i>Minor:</i> Management Science at the Sloan School of Management, MIT	Cambridge, MA <i>GPA: 4.6/5.0</i>
2008	Master of Science in Electrical Engineering and Computer Science	<i>GPA: 4.5/5.0</i>
2006	NATIONAL TECHNICAL UNIVERSITY OF ATHENS Bachelor of Science in Electrical & Computer Engineering	Athens, Greece <i>GPA: 8.7/10.0</i>

Professional Experience

08/2023-Present	USC MARSHALL SCHOOL OF BUSINESS Assistant Professor of Clinical Data Sciences and Operations • Taught and mentored undergraduate, MS, and MBA students • Contributed in shaping MSBA curriculum	Los Angeles, CA
08/2022-06/2023	LUMINATE Data Science Lead • Led data science work, as an individual contributor, towards understanding, computing and predicting consumption of entertainment assets at a worldwide scale • Mentored and guided the work of more junior team members	Los Angeles, CA
10/2021-05/2022	POLLEN Data Science Manager	Los Angeles, CA
07/2021-10/2021	Data Science Lead • Built, managed and mentored a team of 6 data scientists of various levels, leading 3 of them to promotion. • Shaped, streamlined and accelerated hiring process 9x, by optimizing scheduling, target performance profiles, screening criteria and negotiation techniques. • Led the team through a variety of projects including machine learning products, customer segmentation, statistical analyses, A/B testing, visualizations and presentations, offering a plethora of actionable tools across the business. • Coordinated the growth in quantity and quality of technological and project management tools, that increased the per capita productivity of the team by 46%. • Drove the collection, acquisition, integration and consolidation of a variety of first-, second- and third-party data sources across the business. • Built and communicated the data strategy of the company working directly with the VP and C-suite level. Contributed with personal work to a \$150M series-C funding. • Nurtured strong relationships with stakeholders and teams, ranging from IC to C-suite level and spanning a variety of technical and functional disciplines.	
2017-2021	GOGUARDIAN Data Scientist • Created data-based products that help K-12 students engage with online educational content in a safe and focused manner. • Built machine learning models, implementing the entire pipeline from data collection to deployment as production services at scale. • Worked on a variety of classification and regression problems utilizing text and behavioral data. • Collaborated closely and communicated effectively with the Engineering, Design, Product, Project management and Sales teams to develop high-quality data products driven by business needs.	Los Angeles, CA
2017-2018	THINKNEAR BY TELENAV Data Analyst / Data Scientist • Employed clustering techniques to identify user personas for effective targeting in the field of location-based digital advertising, which earned the company 1.5 million dollars a year. • Built ML based products, utilizing supervised and unsupervised methods. • Initiated, evangelized and cultivated a data-driven culture in a company with no prior experience with data. • Designed, prioritized and implemented client-facing products for million-dollar clients. • Led market research to identify relevant data providers and negotiated yearly contracts.	Los Angeles, CA

- Coordinated interdisciplinary projects among Data Science, Client Strategy, Marketing and Product teams.

2012-2016	MASSACHUSETTS INSTITUTE OF TECHNOLOGY PhD thesis – Research Assistant	Cambridge, MA
	<ul style="list-style-type: none"> • Provided a rigorous characterization of the conditions under which investors' limited information, as well as their independent investment decisions according to that information, may magnify risk in the financial system and lead to a financial crisis. • Formulated an efficient model abstraction of the financial system and studied therein risk performance. • Validated model and risk performance results through rigorous theoretical and numerical analysis. 	
2007-2010	FORD MOTOR COMPANY - MIT ALLIANCE Research Assistant and Intern within FORD-MIT ALLIANCE Project	Dearborn, MI / Cambridge, CA
	<ul style="list-style-type: none"> • Developed a mathematical algorithm for fuel consumption minimization in Hybrid Electric Vehicles, utilizing optimization methods, statistical modeling and route forecasting techniques. • Achieved 14% fuel consumption reduction. • Acted as liaison between a highly technical team and Ford Research and Development Management. 	

US Patents

2023	US 11779838: Apparatus and method for identifying digital gaming activity based upon anonymized keystroke
2017	US 9545915: Electric vehicle and method of battery set-point control
2013	US 8612077: Hybrid electric vehicle and method of path dependent receding horizon control

Publications

- G. -E. Katsargyri, "Individual and systemic risk trade-offs induced by information barriers in the financial system," Diss. Massachusetts Institute of Technology, 2017.
- G. -E. Katsargyri et al., "Path dependent receding horizon control policies for Hybrid Electric Vehicles," 2009 IEEE Control Applications, (CCA) & Intelligent Control, (ISIC), St. Petersburg, Russia, 2009, pp. 607-612, doi:10.1109/CCA.2009.5280977.
- G. -E. Katsargyri et al., "Optimally controlling Hybrid Electric Vehicles using path forecasting," 2009 American Control Conference, St. Louis, MO, USA, 2009, pp. 4613-4617, doi: 10.1109/ACC.2009.5160504.
- G. -E. Katsargyri et al., "Optimally controlling Hybrid Electric Vehicles using path forecasting," Diss. Massachusetts Institute of Technology, 2008.

Teaching

	USC MARSHALL SCHOOL OF BUSINESS	Los Angeles, CA
F 2024	DSO 435: <i>Enterprise Data Architecture</i>	
S 2023, F 2024	DSO 552: <i>SQL Databases for Business Analysts</i>	
S 2023	DSO 553: <i>NoSQL Databases in Big Data</i>	
F 2023	BUAD 310: <i>Applied Business Statistics</i>	
	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	Cambridge, MA
2016	<i>How to Present Ideas in Engineering</i>	
2009	<i>Linear Algebra and Functional Analysis for Signals and Systems</i>	

Course Development

	USC MARSHALL SCHOOL OF BUSINESS	Los Angeles, CA
S 2024	DSO 555: <i>Advanced SQL for Business Analysts</i>	
F 2024	DSO 552 – 3 units: <i>SQL Databases for Business Analysts</i>	

Technical Skills

Machine Learning and Statistics: Regression, Classification, Clustering, Deep Learning, NLP, A/B Testing
Tools: Python, SQL, Matlab / Jupyter, Docker, Github / AWS, Snowflake / JIRA, Asana, Monday / Periscope, Tableau, Operations Research
Languages: Greek (native), English, Spanish, French, German

Service

Departmental Service

DSO Women in Data Science Committee (September 1, 2023 - Present).

Submitted proposal to the Department Chair outlining our mission, possible initiatives (e.g., women in DS symposium, summer research projects, career guidance), as well as funding ideas to guide mission's priorities.

Marshall School Service.

MSBA Curriculum Committee (February 1, 2024 - Present).

Detailed curriculum review and reform. Initiative to create and communicate with board of industry advisors. Discussions on improving MSBA students academic experience, career success rates, and hands-on practice opportunities.