

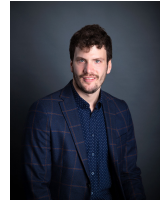


Michail Mylonakis, Ph.D.

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Background & Interests

My doctoral thesis was in the area of Shannon's Information Theory. I have a strong background in Probability, Statistics and Data Analysis. I have also a good knowledge of some modern tools of data science, e.g., Python, SQL, R, Matlab. I recently attended the 11-week online program Business Analytics: Decision-Making Using Data of University of Cambridge. My current interests are summarized as following:

- the application of the methods of Data Analytics for designing statistical experiments and analysing data in different fields,
- the systematic investigation of how Data Analytics can contribute to effective Decision-Making,
- the exploration of the limits of the predictive power of Big Data, by combining the depth of the insights that mathematics gives with the opportunities that the modern tools of data science provide.

Education

- 2017 – 2023 **Ph.D. Electrical Engineering, KTH Royal Institute of Technology, Stockholm, Sweden**
Thesis title: *Empirical Coordination over Networks Subject to Fidelity Criteria*
Advisor: Mikael Skoglund
- 2014 – 2016 **M.Sc. Electrical Engineering and Information Technology, Swiss Federal Institute of Technology (ETH Zurich), Zurich, Switzerland**
Thesis title: *Capacity Bounds for the MIMO Free-space Optical Intensity Channel*
Advisors: Stefan M. Moser, Amos Lapidoth
GPA: 5.1/6
- 2008 – 2014 **Diploma. Electrical and Computer Engineering, National Technical University of Athens (NTUA), Athens, Greece**
Thesis title: *Resource Allocation in Ad-Hoc Wireless Networks*
Advisor: Panagiotis Cottis
GPA: 9.02/10

Research Publications

Journal Articles

- 1 **M. Mylonakis**, P. A. Stavrou, and M. Skoglund, "Empirical coordination subject to fidelity criteria," 2024, to be published.
- 2 **M. Mylonakis**, P. A. Stavrou, and M. Skoglund, "Interference coordination over noisy channels subject to fidelity criteria," 2024, to be published.

Conference Proceedings

- 1 **M. Mylonakis**, P. A. Stavrou, and M. Skoglund, "Adaptive interference coordination over channels with unknown state at the encoder and the decoder," in *Proceedings of the IEEE Information Theory Workshop (ITW)*, 2021, pp. 1–5.

- 2 **M. Mylonakis**, P. A. Stavrou, and M. Skoglund, "Remote empirical coordination," in *Proceedings of the International Symposium on Information Theory and Its Applications (ISITA)*, 2020, pp. 31–35.
- 3 **M. Mylonakis**, P. A. Stavrou, and M. Skoglund, "Empirical coordination subject to a fidelity criterion," in *Proceedings of the IEEE Information Theory Workshop (ITW)*, 2019, pp. 1–5.
- 4 **M. Mylonakis**, P. A. Stavrou, and M. Skoglund, "Empirical coordination with multiple descriptions," in *Proceedings of the 57th Annual Allerton Conference on Communication, Control and Computing*, 2019, pp. 1074–1081.
- 5 S. M. Moser, **M. Mylonakis**, L. Wang, and M. Wigger, "Asymptotic capacity results for mimo wireless optical communication," in *Proceedings of the IEEE International Symposium on Information Theory (ISIT)*, 2017.

Skills

Primary	Problem solving, Applied Mathematics, Data Analysis, Data Visualization, Databases, Algorithms, Machine Learning, Big Data Analytics, Business Analytics
Coding	Python, SQL, R, Matlab, C, Java
Misc.	Academic research, Teaching, \LaTeX , Microsoft Excel, Microsoft Office
Languages	English, Greek, French (Beginner Level)

Miscellaneous Experience

Certifications

Dec 2023 – March 2024	Business Analytics: Decision-Making Using Data, University of Cambridge , 11-week online program
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Teaching Experience

2018 – 2023	Teaching assistant in the Master's level course Information Theory and Source Coding (EQ2845), KTH Royal Institute of Technology
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Awards and Achievements

2014 – 2016	Scholarship for postgraduate studies in countries worldwide, Onassis Foundation
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Hobbies

General	Travelling, Movies
Sports	Running, Trail Running, Soccer
Books	Philosophy, History of science, Literature

References

Available on Request