

Dionysis Kalogerias

Yale University – Department of Electrical Engineering
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Research Interests

Mathematical Optimization, Quantitative Risk, Statistical Learning, Decision under Uncertainty, Signal Processing
Resource Allocation and Management, Autonomy, Robustness, Fairness, Trustworthiness

Employment

Yale University <i>Assistant Professor, Department of Electrical Engineering</i>	New Haven, CT 07/2021 - Present
Michigan State University <i>Assistant Professor, Department of Electrical & Computer Engineering</i>	East Lansing, MI 08/2020 - 06/2021
University of Pennsylvania <i>Postdoctoral Researcher, Department of Electrical & Systems Engineering</i> Hosts: Prof. George J. Pappas and Prof. Alejandro Ribeiro	Philadelphia, PA 06/2019 - 07/2020
Princeton University <i>Postdoctoral Research Associate, Department of Operations Research & Financial Engineering</i> Host: Prof. Warren B. Powell	Princeton, NJ 06/2017 - 05/2019

Education

Rutgers, The State University of New Jersey <i>PhD in Electrical & Computer Engineering (Double Distinction)</i> Thesis Advisor: Prof. Athina Petropulu	Piscataway, NJ 05/2017
University of Patras <i>MS in Signal Processing & Communications, Graduate Program "SPCOMS"</i> Thesis Advisor: Prof. Emmanouil Z. Psarakis	Patras, Greece 09/2012
University of Patras <i>Diploma (BS & MEng) in Computer Engineering & Informatics</i> Thesis Advisor: Prof. Emmanouil Z. Psarakis	Patras, Greece 09/2010

Selected Honors & Awards

ICASSP Best Paper Award (sole winner)	2020
Rutgers SOE Outstanding Graduate Student Award (PhD Distinction)	2017
Rutgers ECE Graduate Program Academic Achievement Award (PhD Distinction)	2017
Nominee for ICASSP Best Student Paper Award (16 nominees in total)	2016
ICASSP Best Student Paper of the Special Sessions	2016
Rutgers SOE TA/GA Professional Development Fund Award	2015
Rutgers ECE Student Development Award	2015
Gerondelis Foundation Fellowship, Gerondelis Foundation, Inc.	2014 - 2015
Rutgers ECE PhD Student Research Excellence Award	2013
Rutgers Leeds Fellowship	2012 - 2013

Papers under Review or Preparation

[T11] K. Nikolakakis, G. Chantzialexiou, and D. Kalogerias, "FEDSTR: Money-In AI-Out | A Decentralized Marketplace for Federated Learning and LLM Training on the NOSTR Protocol," April 2024.

- [T10] P. Promponas, V. Valls, K. Nikolakakis, **D. Kalogierias**, and L. Tassioulas, “Throughput-Optimal Scheduling via Rate Learning,” March 2024.
- [T9] N. Koumpis and **D. Kalogierias**, “An Estimator for the Mean that Dominates the Empirical Average,” February 2024.
- [T8] **D. Kalogierias** and S. Pougkakiotis, “Strong Duality in Risk-Constrained Nonconvex Functional Programming,” September 2023.
- [T7] K. E. Nikolakakis, A. Karbasi, and **D. Kalogierias**, “Select without Fear: Almost All Mini-Batch Schedules Generalize Optimally,” May 2023.
- [T6] S. Pougkakiotis, J. Gondzio and **D. Kalogierias**, “An Active-Set Method for Sparse Approximations, Part II: General Piecewise-Linear Terms,” February 2023.
- [T5] S. Pougkakiotis, J. Gondzio and **D. Kalogierias**, “An Active-Set Method for Sparse Approximations, Part I: Separable ℓ_1 Terms,” February 2023.
- [T4] M. P. Chapman and **D. Kalogierias**, “Risk-Aware Stability of Discrete-Time Systems,” November 2022.
- [T3] **D. Kalogierias**, “Risk-Aware Bayesian Hypothesis Testing,” under preparation.
- [T2] **D. Kalogierias**, “Noisy Linear Convergence of Stochastic Gradient Descent for CV@R Statistical Learning under Polyak-Lojasiewicz Conditions,” under preparation.
- [T1] **D. Kalogierias** and W. B. Powell, “Stochastic Compositional Gradient Methods for Risk-Aware Learning: Mean-Semideviation Models,” under preparation. Extended preprint available on Arxiv.

Journal Publications

- [J14] H. Hashmi, S. Pougkakiotis, and **D. Kalogierias**, “Model-Free Learning of Two-Stage Beamformers for Passive IRS-Aided Network Design,” IEEE Transactions on Signal Processing, vol. 72, pp. 652 - 669, December 2023.
- [J13] A. Tsiamis, **D. Kalogierias**, G. J. Pappas, and A. Ribeiro, “Linear Quadratic Control with Risk Constraints,” Automatica, to appear in 2023 (provisionally accepted).
- [J12] S. Pougkakiotis and **D. Kalogierias**, “A Zeroth-order Proximal Stochastic Gradient Method for Weakly Convex Stochastic Optimization,” SIAM Journal on Scientific Computing, vol. 45, no. 5, pp. A2679-A2702, 2023.
- [J11] S. Evmorfos, **D. Kalogierias**, and A. P. Petropulu, “Adaptive Discrete Motion Control for Mobile Relay Networks,” Frontiers in Signal Processing, July 2022.
- [J10] **D. Kalogierias** and W. B. Powell, “Zeroth-order Stochastic Compositional Algorithms for Risk-Aware Learning,” SIAM Journal on Optimization, vol. 32, no. 2, pp. 386-416, April 2022.
- [J9] K. E. Nikolakakis, **D. Kalogierias**, O. Sheffet, and A. D. Sarwate, “Quantile Multi-Armed Bandits: Optimal Best-Arm Identification and a Differentially Private Scheme,” IEEE Journal on Selected Areas in Information Theory (JSAIT), Special Issue on Sequential, Active and Reinforcement Learning, vol. 2, no. 2, pp. 534-548, June 2021.
- [J8] K. E. Nikolakakis, **D. Kalogierias**, and A. D. Sarwate, “Predictive Learning on Hidden Tree-Structured Ising Models,” Journal of Machine Learning Research (JMLR), vol. 22, no. 59, pp. 1-82, 2021.
- [J7] **D. Kalogierias**, M. Eisen, G. J. Pappas, and A. Ribeiro, “Model-Free Learning of Optimal Ergodic Policies in Wireless Systems,” IEEE Transactions on Signal Processing, vol. 68, pp. 6272-6286, 2020.
- [J6] A. Dimas, **D. Kalogierias**, and A. P. Petropulu, “Cooperative Beamforming with Predictive Relay Selection for Urban mmWave Communications,” IEEE Access, vol. 7, pp. 157057-157071, November 2019 (**Patent Pending**).
- [J5] **D. Kalogierias** and A. P. Petropulu, “Spatially Controlled Relay Beamforming,” IEEE Transactions on Signal Processing, vol. 66, no. 24, pp. 6418 - 6433, December 2018.

- [J4] **D. Kalogerias** and A. P. Petropulu, “Uniform ε -Stability of Distributed Nonlinear Filtering over DNAs: Gaussian-Finite HMMs,” *IEEE Transactions on Signal & Information Processing over Networks (Special Issue on Inference & Learning over Networks)*, vol. 2, no. 4, pp. 461 - 476, December 2016.
- [J3] **D. Kalogerias** and A. P. Petropulu, “Grid-Based Filtering of Markov Processes Revisited: Recursive Estimation & Asymptotic Optimality,” *IEEE Transactions on Signal Processing*, vol. 64, no. 16, pp. 4244 - 4259, July 2016.
- [J2] **D. Kalogerias** and A. P. Petropulu, “Asymptotically Optimal Discrete Time Nonlinear Filters From Stochastically Convergent State Process Approximations,” *IEEE Transactions on Signal Processing*, vol. 63, no. 13, pp. 3522 – 3536, July 2015.
- [J1] **D. Kalogerias** and A. P. Petropulu, “Matrix Completion in Colocated MIMO Radar: Recoverability, Bounds & Theoretical Guarantees,” *IEEE Transactions on Signal Processing*, vol. 62, no. 2, pp. 309 - 321, January 2014.

Conference Publications (peer-reviewed)

- [C30] P. Okanovic, R. Waleffe, V. Mageirakos, K. E. Nikolakakis, A. Karbasi, **D. Kalogerias**, N. M. Gurel, and T. Rekatsinas, “Repeated Random Sampling for Minimizing the Time-to-Accuracy of Learning,” 12th International Conference on Learning Representations (ICLR 2024), Vienna, Austria, May 2024.
- [C29] **D. Kalogerias** and S. Pougkakiotis, “Strong Duality Relations in Nonconvex Risk-Constrained Learning,” 58th Conference on Information Sciences and Systems (CISS 2024), Princeton, NJ, USA, March 2024.
- [C28] G. Yaylali and **D. Kalogerias**, “Stochastic Resource Allocation via Dual Tail Waterfilling,” 58th Conference on Information Sciences and Systems (CISS 2024), Princeton, NJ, USA, March 2024.
- [C27] P. Theodoropoulos, K. E. Nikolakakis, and **D. Kalogerias**, “Federated Learning under Restricted User Availability,” 49th IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2024), Seoul, Korea, April 2024.
- [C26] G. Yaylali and **D. Kalogerias**, “Robust and Reliable Resource Allocation via Tail Waterfilling,” 24th IEEE International Workshop on Signal Processing Advances in Wireless Communications (SPAWC 2023), Shanghai, China, September 2023.
- [C25] H. Hashmi, S. Pougkakiotis, and **D. Kalogerias**, “Model-Free Learning of Optimal Beamformers for Passive IRS-Assisted Sumrate Maximization,” 48th IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2023), Rhodes, Greece, June 2023.
- [C24] K. E. Nikolakakis, F. Haddadpour, A. Karbasi, **D. Kalogerias**, “Beyond Lipschitz: Sharp Generalization and Excess Risk Bounds for Full-Batch GD,” 11th International Conference on Learning Representations (ICLR 2023), Kigali, Rwanda, USA, May 2023.
- [C23] K. E. Nikolakakis, F. Haddadpour, **D. Kalogerias**, A. Karbasi, “Black Box Generalization: Stability of Zeroth-order Learning,” 36th Annual Conference on Neural Information Processing Systems (NeurIPS 2022), New Orleans, LA, USA, December 2022.
- [C22] N. Koumpis, A. Tsiamis, **D. Kalogerias**, “State-Output Risk-Constrained Quadratic Control of Partially Observed Linear Systems,” 61st IEEE Conference on Decision and Control (CDC 2022), Cancun, Mexico, December 2022.
- [C21] **D. Kalogerias**, “Fast and Stable Convergence of Online SGD for CV@R-Based Risk-Aware Learning,” 47th IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2022), Singapore, May 2022.
- [C20] H. Hashmi, **D. Kalogerias**, “Model-Free Learning of Optimal Deterministic Resource Allocations in Wireless Systems via Action-Space Exploration,” 31st IEEE International Workshop on Machine Learning for Signal Processing (MLSP 2021), Gold Coast, Queensland, Australia, November 2021.
- [C19] N. Koumpis, **D. Kalogerias**, “Uncertainty Principles in Risk-Aware Statistical Estimation,” 60th IEEE Conference on Decision and Control (CDC 2021), Austin, TX, USA, December 2021.

- [C18] H. Kumar, **D. Kalogerias**, G. J. Pappas, and A. Ribeiro, “Actor-Only Deterministic Policy Gradient via Zeroth-order Gradient Oracles in Action Space,” IEEE International Symposium on Information Theory (ISIT 2021), Melbourne, Victoria, Australia, July 2021.
- [C17] A. Tsiamis, **D. Kalogerias**, L. F. O. Chamon, A. Ribeiro, and G. J. Pappas, “Risk-Constrained Linear-Quadratic Regulators,” 59th IEEE Conference on Decision and Control (CDC 2020), Jeju Island, Republic of Korea, December 2020.
- [C16] **D. Kalogerias**, M. Eisen, G. J. Pappas, and A. Ribeiro, “Almost-Zero Duality Gaps in Model-Free Resource Allocation for Wireless Systems,” 28th European Signal Processing Conference (EUSIPCO 2020), Amsterdam, Netherlands, January 2021.
- [C15] **D. Kalogerias**, L. F. O. Chamon, G. J. Pappas, and A. Ribeiro, “Better Safe than Sorry: Risk-Aware Nonlinear Bayesian Estimation,” 45th IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2020), Barcelona, Spain, May 2020 (“*Best Paper Award*”).
- [C14] **D. Kalogerias**, M. Eisen, G. J. Pappas, and A. Ribeiro, “A Zeroth-order Learning Algorithm for Ergodic Optimization of Wireless Systems with No Models and No Gradients,” 45th IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2020), Barcelona, Spain, May 2020.
- [C13] K. E. Nikolakakis, **D. Kalogerias**, and A. D. Sarwate, “Learning Tree Structures from Noisy Data,” 22nd International Conference on Artificial Intelligence and Statistics (AISTATS 2019), Naha, Okinawa, Japan, April 2019.
- [C12] A. Dimas, **D. Kalogerias**, C. Koumpouzi, and A. P. Petropulu, “Parameter Estimation for Hierarchical Channel Profiling,” 5th IEEE Global Conference on Signal and Information Processing (GlobalSIP 2017), Montreal, Canada, November 2017.
- [C11] **D. Kalogerias** and A. P. Petropulu, “Enhancing QoS in Spatially Controlled Beamforming Networks via Distributed Stochastic Programming,” 42nd IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2017), New Orleans, LA, USA, March 2017.
- [C10] **D. Kalogerias** and A. P. Petropulu, “Mobile Beamforming & Spatially Controlled Relay Communications,” 41st IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2016), Shanghai, China, March 2016 (“*Best Paper of the Special Sessions*”).
- [C9] **D. Kalogerias** and A. P. Petropulu, “Distributed Nonlinear Filtering of Partially Observed Markov Chains over WSNs: Truncating the ADMM,” 49th Asilomar Conference on Signals, Systems & Computers (Asilomar 2015), Asilomar Hotel & Conference Grounds, Pacific Grove, CA, USA, November 2015.
- [C8] **D. Kalogerias** and A. P. Petropulu, “On Pathwise Convergence of Particle & Grid Based Nonlinear Filters: Feller vs Conditional Regularity,” 53rd Annual Allerton Conference on Communication, Control, and Computing (Allerton 2015), Monticello, Illinois, September 29 - October 2, 2015.
- [C7] **D. Kalogerias** and A. P. Petropulu, “Nonlinear SpatioTemporal Channel Gain Map Tracking in Mobile Cooperative Networks,” 16th IEEE International Workshop on Signal Processing Advances in Wireless Communications (SPAWC 2015), Stockholm, Sweden, June/July 2015.
- [C6] **D. Kalogerias** and A. P. Petropulu, “Mobi-Cliques for Improving Ergodic Secrecy in Fading Wiretap Channels under Power Constraints,” 39th IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2014), Florence, Italy, May 2014.
- [C5] **D. Kalogerias** and A. P. Petropulu, “RIP Bounds for Naively Subsampled Scrambled Fourier Sensing Matrices,” 48th Annual Conference on Information Sciences & Systems (CISS 2014), Princeton, NJ, USA, March 2014.
- [C4] **D. Kalogerias** and A. P. Petropulu, “MC-MIMO Radar: Recoverability and Performance Bounds,” 1st IEEE Global Conference on Signal and Information Processing (GlobalSIP 2013), Austin, TX, USA, December 2013.
- [C3] **D. Kalogerias**, S. Sun and A. P. Petropulu, “Sparse Sensing in Colocated MIMO Radar: A Matrix Completion Approach,” 13th IEEE International Symposium on Signal Processing and Information Technology (ISSPIT 2013), Athens, Greece, December 2013 (*invited*).

- [C2] **D. Kalogerias** and A. P. Petropulu, “On the Coherence Properties of Random Euclidean Distance Matrices,” 14th IEEE International Workshop on Signal Processing Advances in Wireless Communications (SPAWC 2013), Darmstadt, Germany, June 2013.
- [C1] **D. Kalogerias**, N. Chatzipanagiotis, M. M. Zavlanos and A. P. Petropulu, “Mobile Jammers for Secrecy Rate Maximization in Cooperative Networks,” 38th IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2013), Vancouver, Canada, May 2013.

Blogs, Preprints, Reports and Other Publications

- [O5] H. Kumar, **D. Kalogerias**, G. J. Pappas, and A. Ribeiro, “Zeroth-order Deterministic Policy Gradient,” extended preprint, 2020.
- [O4] **D. Kalogerias**, H. Kumar, G. J. Pappas, and A. Ribeiro, “Connections between Policy Gradient and Zeroth-order Methods,” Blog Article: <https://www.dkalogerias.org/connections-aug2020/>, August 2020.
- [O3] K. E. Nikolakakis, **D. Kalogerias**, and A. D. Sarwate, “Optimal Rates for Learning Hidden Tree Structures,” 2019.
- [O2] **D. Kalogerias** and A. P. Petropulu, “Spatially Controlled Relay Beamforming: 2-Stage Optimal Policies,” extended preprint, 2017. Available [here](#).
- [O1] **D. Kalogerias** and A. P. Petropulu, “Sequential Channel State Tracking & Spatiotemporal Channel Prediction in Mobile Wireless Sensor Networks,” CSPL Technical Report, Rutgers, The State University of New Jersey, 2015. Available [here](#).

Research Grants/Funding

AFRL/Carillon Technologies, “Next Generation Small Satellite Technology Program”

01/2024 - 11/2025 | **\$300K** | PI: **D. Kalogerias**

NSF CCF 2242215, “Risk-Aware Resource Allocation for Robust Wireless Autonomy”

08/2023 - 07/2026 | **\$600K** | PI: **D. Kalogerias**

Microsoft Corporation, “Optimal Control under Uncertainty for Computer Systems”

04/2022 - 03/2023 | **\$150K** | PI: **D. Kalogerias**

MSU Axia Institute/Dow Chemical Company, “AI-Inspired Supply Chain Network Analysis”

01/2021 - 12/2021 | **\$81K** | PI: **D. Kalogerias**

NSF CCF 1526908, “Spatiotemporally Varying Channel Map Estimation and Tracking in Wireless Networks”

09/01/ 2015 - 12/31/2020 | **\$516K**. | PI: A. P. Petropulu PI, Co-PI: W. Trappe (role: **contribution as PhD student**).

Patents

US Patent 11943038

“Relay Beamforming with Predictive Relay Selection for Millimeter Wave Communications”

Issued 03/2024

Talks and Presentations

Strong Duality in Risk-Constrained Nonconvex Functional Programming

International Symposium on Mathematical Programming (ISMP)

Montreal, Canada

07/2024

Colloquium, College of Nanoscale, Science and Engineering,

University at Albany, SUNY

03/2024

Seminar, Yale Institute for the Foundations of Data Science (FDS)

Yale University, New Haven, CT, USA

11/2022

Strong Duality Relations in Nonconvex Risk-Constrained Learning

IEEE CISS

Princeton University, Princeton, NJ, USA

10/2024

Select without Fear: Almost All Mini-Batch Schedules Generalize Optimally
Yale FDS, Workshop on Theory and Practice of Foundation Models
Yale University, New Haven, CT, USA 10/2023

Reward-Based Reinforcement Learning with Risk Constraints
ICML, Workshop on Duality Principles for Modern Machine Learning
Honolulu, HI, USA 07/2023

Repeated Random Sampling for Minimizing the Time-to-Accuracy of Learning
ICML, Workshop on Data-centric Machine Learning Research (DMLR)
Honolulu, HI, USA 07/2023

Risk-Constrained Statistical Estimation and Control
RSS, Workshop on Risk-Aware Decision Making: From Optimal Control to RL
Columbia University, New York City, NY, USA 06/2022

Achieving Noisy Linear Convergence in CV@R Statistical Learning
CWIT, Invited Session on Data Science and Information Theory, Ottawa, Ontario, Canada 6/2022
IEEE CDC, Workshop on Aware-Learning: How to Benefit from Priors, Austin, TX, USA 12/2021

Risk-Aware Optimization for Statistical Estimation and Control
Seminar, Department of EE, Yale University 02/2021

Almost-Zero Duality Gaps in Model-Free Resource Allocation for Wireless Systems
EUSIPCO
Amsterdam, Netherlands 1/2021

Risk-Aware MMSE Estimation
INFORMS Annual Meeting, Virtual Online 11/2020

Better Safe than Sorry: Risk-Aware Nonlinear Bayesian Estimation
IEEE ICASSP
Barcelona, Spain 5/2020

Model-Free Learning of Resource Allocation Policies for Wireless Autonomy
Seminar, Department of EE, Yale University 3/2020
Seminar, Department of ECE, Michigan State University 1/2020

Zeroth-order Algorithms for Risk-Averse Optimization
INFORMS Annual Meeting
Seattle, WA, USA 10/2019

Zeroth-order Recursive Optimization of Mean-Semideviation Risk Measures
The XV International Conference on Stochastic Programming
Trondheim, Norway 8/2019

Gradient-Based Recursive Risk-Averse Optimization
Pappas Group Seminar, Department of ESE, University of Pennsylvania 3/2019
Alelab Seminar, Department of ESE, University of Pennsylvania 3/2019

Recursive Optimization of Convex Risk Measures: Mean-Semideviation Models
INFORMS Annual Meeting
Phoenix, AZ, USA 11/2018

Recursive Optimization of Mean-Semideviation Risk Measures
Workshop on Risk Management Approaches in Engineering Applications
University of Florida, Gainesville, FL, USA 10/2018
Autonomous Systems and Control Research Group, Siemens, Princeton, NJ, USA 6/2018

Spatially Controlled Relay Beamforming
Seminar, Department of ECE, Stevens Institute of Technology 5/2017
Information Theory and Applications (ITA) Workshop (Graduation Day), San Diego, CA, USA 2/2017

Enhancing QoS in Beamforming Networks: Mobile Beamformers and Optimal Motion Policies
Workshop on Comm-Aware Control and Robotics, IEEE CDC
Las Vegas, NV, USA 12/2016

<i>Mobile Beamforming & Spatially Controlled Relay Communications</i> IEEE ICASSP Shanghai, China	3/2016
<i>Distributed Nonlinear Filtering of Partially Observed Markov Chains over WSNs: Truncating the ADMM</i> Asilomar Conference on Signals, Systems and Computers Pacific Grove, CA, USA	11/2015
<i>On Pathwise Convergence of Particle & Grid Based Nonlinear Filters: Feller vs Conditional Regularity</i> Allerton Conference on Communication, Control, and Computing Urbana, IL, USA	10/2015
<i>Mobi-Cliques for Improving Ergodic Secrecy in Fading Wiretap Channels under Power Constraints</i> IEEE ICASSP Florence, Italy	5/2014
<i>On the Coherence Properties of Random Euclidean Distance Matrices</i> IEEE/ACM Workshop on Signal Processing Advances in Sensor Networks Philadelphia, PA, USA	4/2013

Teaching Experience

Yale University, Department of EE “Detection and Estimation” (graduate)	Fall 2022-2023
Yale University, Department of EE “Signals and Systems” (undergraduate)	Spring 2022-2024
Michigan State University, Department of ECE “Detection and Estimation” (graduate)	Spring 2021
Rutgers, The State University of New Jersey, Department of ECE “Linear Systems and Signals” (head Teaching Assistant (TA), undergraduate) “Probability and Random Processes” (TA, undergraduate) “Stochastic Signals and Systems” (TA, graduate)	Fall 2015 Spring 2015 Fall 2013
University of Patras, Greece, Department of Computer Engineering & Informatics “Digital Signal Processing” (TA, undergraduate) “Digital Communications” (TA, undergraduate)	Spring 2012 Fall 2011

Memberships, Technical Activities and Service

Professional Organizations

Senior Member, IEEE –Signal Processing Society, Control Systems Society–
Member, Mathematical Optimization Society (MOS)

External Service (Editorial, Conferences, etc.)

Guest Editor, Frontiers in Signal Processing—Signal Processing for Communications Section Article Collection on “Emerging Optimization, Learning and Signal Processing for Next Generation Wireless Communications and Networking”	TBA in 2024
Mentor, ICASSP 2024 , Micro Mentoring Experience Program (MiME)	04/2024
Session Chair, ICASSP 2024 , lecture session “Robustness and Trustworthy Machine Learning II”	04/2024
Session Chair, ICASSP 2024 , poster session “Robust and Sustainable Machine Learning”	04/2024
Session Chair, ICASSP 2022 , session “Divergences and Optimization”	05/2022
Co-organizer and Session Chair, CDC 2022 , invited session on “Risk-Aware Learning, Verification, and Control”	12/2022
Dissertation Committee (external member) : Konstantinos Nikolakakis, Rutgers University (PhD advisor: Anand Sarwate)	04/2021

Reviewing

Journal Reviewer Activity (nonexhaustive list):

SIAM Journal on Optimization (SIOPT), IEEE Transactions on Signal Processing (TSP), IEEE Signal Processing Magazine (SPM), IEEE Transactions on Automatic Control (TAC), IEEE Journal on Selected Areas in Information Theory (JSAIT), IEEE Transactions on Signal & Information Processing over Networks (TSIPN), IEEE Transactions on Wireless Communications (TWC), Proceedings of the IEEE, IEEE Signal Processing Letters (SPL), IEEE Control Systems Letters, IEEE Sensors Journal, MDPI Entropy, IET Signal Processing, EURASIP Journal on Wireless Communications and Networking

Conference Reviewer Activity (nonexhaustive list):

IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), IEEE Conference on Decision and Control (CDC), Conference on Neural Information Processing Systems (NeurIPS), International Conference on Machine Learning (ICML), IEEE International Symposium on Information Theory (ISIT), American Control Conference (ACC), IEEE International Workshop on Machine Learning for Signal Processing (IEEE MLSP), Conference on Information Sciences and Systems (CISS), IEEE Workshop on Computational Advances in Multi-Sensor Adaptive Processing (CAMSAP), IEEE Global Communications Conference (GLOBECOM), IEEE Wireless Communications & Networking Conference (WCNC), European Signal Processing Conference (EUSIPCO)

Current and Former Trainees

PhD Students

Hassaan Hashmi (post-candidacy)	2021 - Present
Nikolaos Koumpis (pre-candidacy)	2022 - Present
Gokberk Yaylali (pre-candidacy)	2022 - Present
Baturay Saglam (pre-candidacy)	2023 - Present
Seyed Abolfazl Rahimi (pre-candidacy)	2023 - Present

Postdocs

Konstantinos Nikolakakis	07/2021 - Present
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Alumni

Spyridon Pougkakiotis, Postdoc	04/2022 - 03/2023
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Current Position: *Lecturer in Mathematics* (equiv. to assistant professor)

School of Science and Engineering, University of Dundee, Scotland
(joining King's College, London, UK, in Summer 2024)

Periklis Theodoropoulos, Postgraduate Associate	10/2021 - 10/2023
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Current Position: *TBA*

Languages

English (Fluent), Greek (Native)

Citizenships (and related)

Hellenic (Citizen of Greece), US Permanent Resident (Green Card Holder)