Stefan Vlaski

Personal Information

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Orcid	0000-0002-0616-3076
Publications	h-index 12, 45+ publications and 2 patents, available on Google Scholar, linked here.

Employment History

Since 09/2021	**Imperial College London**, Lecturer
10/2019–08/2021	**École Polytechnique Fédérale de Lausanne (EPFL) Adaptive Systems Laboratory**, Postdoctoral researcher, led by Prof. Ali H. Sayed, Lausanne, Switzerland.
10/2017–09/2019	**École Polytechnique Fédérale de Lausanne (EPFL) Adaptive Systems Laboratory**, Visiting Doctoral Assistant, led by Prof. Ali H. Sayed, Lausanne, Switzerland
06/2017–09/2017	**Amazon Lab126**, Software Development Engineering Intern, Sunnyvale, CA, USA Environment learning
06/2016–09/2016	**Apple Inc.**, Engineering Intern, Cupertino, CA, USA Machine learning for audio applications
07/2014–06/2017	**UCLA Adaptive Systems Laboratory**, Graduate Student Researcher, Los Angeles, CA, USA

Education

07/2014–09/2019	**University of California, Los Angeles**, CA, USA Doctor of Philosophy, Electrical and Computer Engineering, GPA: 3.93 • **Date of Defense:** June 17th, 2019, **Advisor:** Prof. Ali H. Sayed • **Thesis:** Distributed Stochastic Optimization in Non-Differentiable and Non-Convex Environments, available at https://escholarship.org/uc/item/7pb746mg.
09/2013–06/2014	**University of California, Los Angeles**, CA, USA Master of Science, Electrical Engineering, Signals and Systems Track, GPA: 3.92
10/2010–07/2013	**Technical University Darmstadt**, Germany Bachelor of Science, Electrical Engineering, GPA: 1.33 on a scale from 1.0 (best) to 5.0 • **Advisor:** Prof. Abdelhak M. Zoubir • **Bachelor thesis:** Robust Bootstrap Methods for Signal Processing

Supervision

Since 09/2021	Supervision of 4 undergraduate and 3 postgraduate student projects at Imperial College London.
06/2019–08/2021	Supervision of 5 student projects and co-supervision of 6 junior PhD students at EPFL.

Teaching Activities

09/2021–07/2022 **Department of Electrical and Electronic Engineering, Imperial College London**, UK. Guest lectures in "Large Dimensional Data Processing" with W. Dai, Seminar Series on "Online Learning and Reinfocement Learning" with K. Leung, and tutorials for second year undergraduate students in Electrical Engineering.

02/2018–06/2019 **Institute Electrical Engineering, EPFL**, Lausanne, Switzerland
Teaching Assistant for "Adaptation and Learning" (postgraduate)

10/2014–03/2017 **Department of Electrical Engineering, UCLA**, Los Angeles, CA, USA
Teaching Associate/Teaching Assistant for "Adaptation and Learning" (postgraduate), "Digital Signal Processing" (undergraduate) and "Systems and Signals" (undergraduate)

10/2011–07/2013 **Department of Electrical Engineering, TU Darmstadt**, Germany
Teaching Assistant for "Logic Design", "Electrical Engineering I", "Deterministic Signals and Systems", "Project Week for 1st Semester Students" and "Stochastic Systems and Signals"

Selected Seminars, Tutorials and Keynotes

08/2022 Keynote on "Provable and Efficient Learning over Networks", STATOS 2022 Workshop, Belgrade, Serbia.

06/2021 Keynote on "Decentralised Learning in Non-Convex Environments", 6GIC-CLICK Selected Advanced Topics Workshop series, featuring Wireless AI, Institute for Communication Systems (ICS), University of Surrey, UK.

05/2021 Tutorial on "Federated and Decentralized Multitask Learning", with R. Nassif and A. H. Sayed, ICASSP 2022, Singapore.

12/2020 Invited seminar on "Learning over Graphs — Beyond Consensus and Convexity", IEEE Finland SP/CAS Chapter, Helsinki, Finland (held online).

Prizes, awards, fellowships

12/2019 2nd prize at the best student paper competition of the IEEE International Workshop on Computational Advances in Multi-Sensor Adaptive Processing (CAMSAP), Le gosier, Guadeloupe.

03/2016 1st prize in the track Signal Processing Theory and Methods at the best student paper competition of the IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Shanghai, China.

09/2013–06/2014 Fully funded tuition and stipend through the UCLA Graduate Division Fellowship.

10/2011–07/2013 Monthly stipend through the German national scholarship (sponsored by Deutsche Telekom AG), awarded to 91 out of 25,000 students at TU Darmstadt.

External Visibility and Engagement

Since 05/2020 Regular session chair at international conferences such as IEEE ICASSP and EUSIPCO.

05/2020 Co-organiser and chair of a special session on "Learning and Optimization in Non-Convex Environments" at IEEE ICASSP 2020, Barcelona Spain.

Since 08/2014 Regular reviewer for IEEE Signal Processing Magazine, Proceedings of the IEEE, IEEE Transactions on Signal Processing, IEEE Transactions on Signal and Information Processing over Networks, IEEE Transactions on Automatic Control, IEEE Transactions on Control of Network Systems, IEEE Transactions on Parallel and Distributed Systems, IEEE/ACM Transactions on Networking, IEEE Signal Processing Letters, IEEE CAMSAP, IEEE ICASSP, Elsevier Signal Processing.

Memberships

Since 2020	Member of the Institute of Electrical and Electronics Engineers (IEEE) and the IEEE Signal Processing Society.
2013–2019	Student member of IEEE and the IEEE Signal Processing Society.

Patents

03/2020	M. Mansour, S. Kandadai, and **S. Vlaski**, assigned to **Amazon Technologies, Inc.**, "Multi microphone wall detection and location estimation", *US Patent 10,598,543*, March 2020, granted. https://patents.google.com/patent/US10598543B1/en
05/2017	D. Marković, A. H. Sayed, S. Basir-Kazeruni, **S. Vlaski**, and H. Salami, assigned to **The Regents of the University of California**, "Systems and Methods for Reducing Noise Caused By Stimulation Artifacts in Neural Signals Received By Neuro-Modulation Devices", *US Patent App. 16/306,234*, May 2017, pending. https://patents.google.com/patent/US20190125269A1/en

London, September 3rd, 2022