Personal data

Title	Dr.
First name	Luiz Fernando
Name	de Oliveira Chamon
Current position	ELLIS–SimTech Independent research group leader (10/2022–09/2026)
Current institution, country	University of Stuttgart, Germany
Identifiers/ORCID	**0000-0001-7731-6650**

Qualifications and Career

Stages	Periods and Details	
Degree program	*Polytechnic School of the University of São Paulo, Brazil* M.Sc. in Electrical Engineering Dissertation: Combinations of Adaptive Filters Advisor: Cássio Guimarães Lopes	02/2012–02/2015
	École Centrale de Lyon and *INSA-Lyon, France* Undergraduate exchange student of the M.Sc. in Acoustics program	01/2009–06/2009
	Polytechnic School of the University of São Paulo, Brazil B.Sc. in Electrical Engineering (Electronic Systems)	02/2006–05/2011
Doctorate	*University of Pennsylvania, USA* Ph.D. in Electrical Engineering Thesis: Constrained learning and inference Advisor: Alejandro Ribeiro	09/2015–12/2020
Stages of academic and professional career	*University of Stuttgart, Germany* ELLIS–SimTech Independent research group leader	10/2022–present
	University of California, Berkeley, USA Postdoctoral fellow at the Simons Institute for the Theory of Computing	07/2021–09/2022
	University of Pennsylvania, USA Postdoctoral researcher	10/2020–06/2021

Engagement in the Research System

Women in STEM 04/2022
Judge of the ***ENVISION research competition***

University of Pennsylvania 05/2020–12/2020
COVID-19 Research and Academic Safety Reporting Committee

University of Pennsylvania 06/2018–07/2018 and 06/2019–07/2019
Mentor for the research experience for undergraduate program ***SUNFEST***

Reviewer/referee
IEEE Trans. on Signal Processing; IEEE Signal Processing Letters; IEEE Signal Processing Magazine; IEEE Journal of Selected Topics in Signal Processing; IEEE Trans. on Signal and Information Processing over Networks; IEEE Trans. on Automatic Control; IEEE Trans. on Control of Network Systems; and conferences, such as NeurIPS, ICML, IEEE ICASSP, IEEE CDC. . .

Scientific Results

Category A

[1] S. Paternain, M. Calvo-Fullana, **L. F. O. Chamon**, and A. Ribeiro. Safe policies for reinforcement learning via primal-dual methods. *IEEE Trans. on Autom. Control. (accepted)*, 2023. DOI: 10.1109/TAC.2022.3152724. URL: https://arxiv.org/abs/1911.09101.

[2] **L. F. O. Chamon**, S. Paternain, M. Calvo-Fullana, and A. Ribeiro. Constrained learning with non-convex losses. *IEEE Trans. on Inf. Theory*, 2022. DOI: 10.1109/TIT.2022.3187948. URL: https://arxiv.org/abs/2103.05134.

[3] A. Robey*, **L. F. O. Chamon***, G. J. Pappas, H. Hassani, and A. Ribeiro. Adversarial robustness with semi-infinite constrained learning. In *Conference on Neural Information Processing Systems (NeurIPS)*, 2021. URL: https://arxiv.org/abs/2110.15767. (* equal contribution).

[4] **L. F. O. Chamon**, G. J. Pappas, and A. Ribeiro. Approximate supermodularity of Kalman filter sensor selection. *IEEE Trans. on Autom. Control.*, 66[1]:49–63, 2021. DOI: 10.1109/TAC.2020.2973774. URL: https://arxiv.org/abs/1912.03799.

[5] D. S. Kalogerias, **L. F. O. Chamon**, G. J. Pappas, and A. Ribeiro. Better safe than sorry: Risk-aware nonlinear Bayesian estimation. In *IEEE International Conference in Acoustic, Speech, and Signal Processing (ICASSP)*, 2020. URL: https://arxiv.org/abs/1912.02933.

[6] **L. F. O. Chamon**, Y. C. Eldar, and A. Ribeiro. Functional nonlinear sparse models. *IEEE Trans. on Signal Process.*, 68[1]:2449–2463, 2020. DOI: 10.1109/TSP.2020.2982834. URL: https://arxiv.org/abs/1811.00577.

[7] **L. F. O. Chamon**, S. Paternain, and A. Ribeiro. Trust but verify: Assigning prediction credibility by counterfactual constrained learning, 2020. URL: https://arxiv.org/abs/2011.12344.

[8] **L. F. O. Chamon** and A. Ribeiro. Probably approximately correct constrained learning. In *Conference on Neural Information Processing Systems (NeurIPS)*, 2020. URL: https://arxiv.org/abs/2006.05487.

[9] M. Eisen, C. Zhang, **L. F. O. Chamon**, D. D. Lee, and A. Ribeiro. Learning optimal resource allocations in wireless systems. *IEEE Trans. on Signal Process.*, 67[10]:2775–2790, 2019. DOI: 10.1109/TSP.2019.2908906. URL: https://arxiv.org/abs/1807.08088.

[10] **L. F. O. Chamon** and A. Ribeiro. Approximate supermodularity bounds for experimental design. In *Conference on Neural Information Processing Systems (NeurIPS)*, pages 5403–5412, 2017. URL: https://arxiv.org/abs/1711.01501.

Category B

[1] J. Cervino, **L. F. O. Chamon**, B. D. Haeffele, R. Vidal, and A. Ribeiro. Learning globally smooth functions on manifolds, 2022. URL: https://arxiv.org/abs/2210.00301.

[2] I. Hounie, **L. F. O. Chamon**, and A. Ribeiro. Automatic data augmentation via invariance-constrained learning, 2022. URL: https://arxiv.org/abs/2209.15031.

[3] B. A. Angélico, **L. F. O. Chamon**, S. Paternain, A. Ribeiro, and G. J. Pappas. Source seeking in unknown environments with convex obstacles. In *American Control Conference*, 2021. URL: https://arxiv.org/abs/1909.07496.

[4] M. Calvo-Fullana, S. Paternain, **L. F. O. Chamon**, and A. Ribeiro. State augmented constrained reinforcement learning: Overcoming the limitations of learning with rewards, 2021. URL: https://arxiv.org/abs/2102.11941.

[5] L. Ruiz, **L. F. O. Chamon**, and A. Ribeiro. Transferability properties of graph neural networks, 2021. URL: https://arxiv.org/abs/2112.04629.

Academic Distinctions

- **2020**: Best student paper award at IEEE ICASSP 2020 for "The empirical duality gap of constrained statistical learning."
- **2020**: Best paper award at IEEE ICASSP 2020 for "Better safe than sorry: Risk-aware nonlinear Bayesian estimation."
- **2018**: Outstanding editorial board service (IEEE Transactions on Signal Processing).
- **2018**: Best Ph.D. colloquium award
  (Dept. of Electrical and Systems Engineering, University of Pennsylvania).
- **2018**: Good citizen award for services to the department
  (Dept. of Electrical and Systems Engineering, University of Pennsylvania).
- **2013**: IEEE Standard Education Committee grant.
- Travel grants to major conferences: IEEE ICASSP, IEEE CDC, NeurIPS, and USENIX NSDI.

Data protection and consent to the processing of optional data

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