

## 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	<a href="https://orcid.org/0000-0001-7731-6650">0000-0001-7731-6650</a>

## Qualifications and Career

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

## Engagement in the Research System

University of Stuttgart 10/2023–09/2027  
General assembly of the Stuttgart Center for Simulation Science (deputy member)

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] J. Cervino, **L. F. O. Chamon**, B. D. Haeffele, R. Vidal, and A. Ribeiro. Learning globally smooth functions on manifolds. In *International Conference on Machine Learning (ICML)*, 2023. URL: <https://arxiv.org/abs/2210.00301>.
- [2] 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.*, 68[3]:1321–1336, 2023. DOI: [10.1109/TAC.2022.3152724](https://doi.org/10.1109/TAC.2022.3152724). URL: <https://arxiv.org/abs/1911.09101>.
- [3] **L. F. O. Chamon**, S. Paternain, M. Calvo-Fullana, and A. Ribeiro. Constrained learning with non-convex losses. *IEEE Trans. on Inf. Theory*, 69[3]:1739–1760, 2023. DOI: [10.1109/TIT.2022.3187948](https://doi.org/10.1109/TIT.2022.3187948). URL: <https://arxiv.org/abs/2103.05134>.
- [4] 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).
- [5] L. Ruiz, **L. F. O. Chamon**, and A. Ribeiro. Graphon neural networks and the transferability of graph neural networks. In *Conference on Neural Information Processing Systems (NeurIPS)*, 2020. URL: <https://arxiv.org/abs/2006.03548>.
- [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](https://doi.org/10.1109/TSP.2020.2982834). URL: <https://arxiv.org/abs/1811.00577>.
- [7] **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>.
- [8] 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](https://doi.org/10.1109/TSP.2019.2908906). URL: <https://arxiv.org/abs/1807.08088>. Top 50 most accessed articles in IEEE TSP: May, July, Sept, Oct 2019.
- [9] S. Paternain, **L. F. O. Chamon**, M. Calvo-Fullana, and A. Ribeiro. Constrained reinforcement learning has zero duality gap. In *Conference on Neural Information Processing Systems (NeurIPS)*, pages 7555–7565, 2019. URL: <https://arxiv.org/abs/1910.13393>.
- [10] **L. F. O. Chamon** and A. Ribeiro. Greedy sampling of graph signals. *IEEE Trans. on Signal Process.*, 66[1]:34–47, 2018. DOI: [10.1109/TSP.2017.2755586](https://doi.org/10.1109/TSP.2017.2755586). URL: <https://arxiv.org/abs/1704.01223>.

## Category B

- [1] M. Calvo-Fullana, S. Paternain, **L. F. O. Chamon**, and A. Ribeiro. State augmented constrained reinforcement learning: Overcoming the limitations of learning with rewards. *IEEE Trans. on Autom. Control.*, 69[7]:4275–4290, 2024. URL: <https://arxiv.org/abs/2102.11941>.
- [2] **L. F. O. Chamon**. csl: Learning under requirements with PyTorch, version 1.0, 2021. URL: <https://github.com/lfochamon/csl>.
- [3] D. Lamb, **L. F. O. Chamon**, V. H. Nascimento, and A. Spierer. Sparse cascaded-integrator-comb filters, 2019. URL: <https://patents.google.com/patent/US10367477B2>. US10367477B2.

## 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

If you provide voluntary information (marked as optional) in this CV, your consent is required. Please confirm your consent by checking the box below.

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