

# LUIZ F. O. CHAMON

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## ACADEMIC POSITIONS

10/2022–present	<b>University of Stuttgart (DE)</b> <i>ELLIS–SimTech / AI institute</i>	Independent research group leader
12/2022–present	<b>Int. Max Planck Research School for Intelligent Systems (DE)</b>	Faculty
07/2021–09/2022	<b>University of California, Berkeley (USA)</b> <i>Simons Institute for the Theory of Computing</i>	Postdoctoral fellow
10/2020–06/2021	<b>University of Pennsylvania (USA)</b> <i>Electrical and Systems Engineering Dept.</i>	Postdoctoral researcher

## EDUCATION

09/2015–12/2020	<b>University of Pennsylvania (USA)</b> <i>Thesis: Constrained learning and inference</i>	Ph.D. in Electrical Engineering (Advisor: <i>Alejandro Ribeiro</i> )
02/2012–02/2015	<b>University of São Paulo (BR)</b> <i>Thesis: Combinations of adaptive filters</i>	M.Sc. in Electrical Engineering (Advisor: <i>Cássio G. Lopes</i> )
01/2009–06/2009	<b>École Centrale de Lyon and INSA-Lyon (FR)</b> <i>Exchange student of the Masters in Acoustics</i>	Undergraduate exchange
02/2006–05/2011	<b>University of São Paulo (BR)</b>	B.Sc. in Electrical Engineering

## PROFESSIONAL EXPERIENCE

02/2015–08/2015	<b>University of São Paulo (BR)</b> <i>Electronic Systems Engineering Dept.</i> Design and prototype of an open source microphone array for acoustic imaging ( <a href="#">GitHub</a> )	Research staff
04/2014–03/2015	<b>EMBRAER S.A. (BR)</b> Statistical analysis of comfort data from over 1000 individuals collected over the course of more than 60 simulated flights	Consultant
02/2010–12/2013	<b>University of São Paulo (BR)</b> <i>Mechanical Engineering Dept.</i> Design and implementation of the vibroacoustic system of a full-sized aircraft cabin simulator in collaboration with EMBRAER S.A.	Research staff
10/2009–12/2011	<b>University of São Paulo (BR)</b> <i>Mechanical Engineering Dept.</i> Auralization study in collaboration with the Federal University of Santa Catarina (BR) and the <i>Institut für Technische Akustik</i> (RWTH, DE)	Student researcher
02/2009–06/2009	<b>INSAVALOR Formation Continue (FR)</b> Design of a ceramic tile crack detection system for <i>Saint-Gobain S.A.</i>	Consultant
01/2004–08/2004	<b>National Institute for Space Research (INPE, BR)</b> <i>Power Supply Group</i> Contributed to solar cells tests, project revisions, and <i>power budget negotiations</i> with Chinese delegations	Laboratory assistant

## AWARDS

- 2022 • [Young Investigators Lecture](#) (now “EAS Trailblazers”) *Division of Engineering and Applied Sciences, Caltech*
- 2020 • Best student paper award at IEEE ICASSP 2020  
“*The empirical duality gap of constrained statistical learning*”
- Best paper award at IEEE ICASSP 2020  
“*Better safe than sorry: Risk-aware nonlinear Bayesian estimation*”
- 2018 • Best Ph.D. colloquium award  
*Dept. of Electrical and Systems Engineering, University of Pennsylvania*
- “Good citizen award” for services to the department  
*Dept. of Electrical and Systems Engineering, University of Pennsylvania*
- Outstanding editorial board service  
*IEEE Signal Processing Society*
- Travel grants to major conferences, such as IEEE ICASSP, NeurIPS, and NSDI

## SELECTED PUBLICATIONS

Total number: 63

Citations: 1731

h-index: 22

 [Google Scholar](#)

 [0000-0001-7731-6650](#)

See complete list on [p. 6](#)

- [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], 2024.
- [2] **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], 2023.
- [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. (\* equal contribution).
- [4] L. Ruiz, **L. F. O. Chamon**, and A. Ribeiro. Graphon signal processing. *IEEE Trans. on Signal Process.*, 69, 2021.
- [5] **L. F. O. Chamon**, G. J. Pappas, and A. Ribeiro. Approximate supermodularity of Kalman filter sensor selection. *IEEE Trans. on Autom. Control.*, 66[1], 2021.
- [6] 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.
- [7] **L. F. O. Chamon** and A. Ribeiro. Probably approximately correct constrained learning. In *Conference on Neural Information Processing Systems (NeurIPS)*, 2020.
- [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], 2019. **[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)*, 2019.
- [10] **L. F. O. Chamon** and A. Ribeiro. Greedy sampling of graph signals. *IEEE Trans. on Signal Process.*, 66[1], 2018.

## INVITED TALKS

- |      |   |   |
|------|---|---|
| 2024 | • Tutorial: "Constrained learning: From supervised to reinforced"                         | EUSIPCO                                   |
|      | • Tutorial: "Constrained learning: From supervised to reinforced"                         | L4DC                                      |
|      | • Statistics and learning theory in the era of AI   | MFO, Oberwolfach                          |
|      | • Tutorial: "Constrained learning: From supervised to reinforced"                         | AAAI                                      |
|      | • Workshop on Reinforcement Learning  | U. Mannheim                               |
| 2023 | • CyberValley at University of Stuttgart  | U. Stuttgart                              |
|      | • SimTech Conference 2023   | U. Stuttgart                              |
|      | • IMPRS-IS tutorial: "Adversarially robust learning"                                      | MPI-Tübingen                              |
|      | • Data Science and Dependence Conference  | IWH-Heidelberg                            |
|      | • <i>Kolloquium Technische Kybernetik</i>   | U. Stuttgart                              |
|      | • SimTech ML sessions   | U. Stuttgart                              |
|      | • <i>SHIFT: KI und eine zukünftige Gemeinschaft</i><br>(SHIFT: AI and a future community) | Kunstmuseum Stuttgart                     |
|      | • ELLIS/CIS Network Seminar   | EPFL                                      |
| 2022 | • Young Investigators Lecture   | Caltech                                   |
|      | • Foundations of Data Science Institute   | Simons Institute                          |
| 2021 | • Deep Learning Theory Symposium  | Simons Institute                          |
|      | • Research seminar  | Microsoft Research                        |
|      | • EECS seminar  | MIT                                       |
|      | • Mathematical Institute for Data Science   | Johns Hopkins U.                          |
|      | • Departmental seminar  | Toyota Technological Institute at Chicago |
| 2020 | • Center for Wireless Autonomous Systems  | Intel                                     |

## ACADEMIC SELF-ADMINISTRATION

- |                 |  |                            |
|-----------------|--|----------------------------|
| 01/2024–12/2026 | <b>EURASIP</b><br><i>Theoretical and Methodological Trends in Signal Processing</i>                          | Technical committee member |
| 10/2023–09/2027 | <b>University of Stuttgart</b><br><i>General assembly of the Stuttgart Center for Simulation Science</i>     | Deputy member              |
| 05/2020–12/2020 | <b>University of Pennsylvania</b><br><i>Penn Engineering COVID-19 Research and Academic Safety Committee</i> | PhD representative         |
| 01/2020–03/2020 | <b>University of Pennsylvania</b><br><i>PhD student hiring committee</i>                                     | Evaluator                  |
| 09/2017–07/2018 | <b>University of Pennsylvania</b><br><i>ESE PhD colloquium</i>   | Organizer                  |

## TEACHING AND SUPERVISION

### *Supervision of doctoral researchers*

- |                 |   |  |
|-----------------|---|--|
| 01/2024–present | Viggo Moro  | U. Stuttgart / IMPRS-IS                          |
| 10/2023–present | Aneesh Barthakur  | U. Stuttgart / IMPRS-IS                          |
| 09/2021–present | Ignacio Hounie<br><i>Technical supervision</i>  | U. Pennsylvania<br>(Main supervisor: A. Ribeiro) |
| 08/2019–09/2022 | Luana Ruiz (now assistant professor at John Hopkins U.)<br><i>Technical supervision</i> | U. Pennsylvania<br>(Main supervisor: A. Ribeiro) |

06/2018–07/2021	Maria Peifer <i>Technical supervision</i>	U. Pennsylvania (Main supervisor: A. Ribeiro)
<i>Supervision of master thesis</i>		
12/2023–08/2024	Nadin Elsharbatly	U. Stuttgart
<i>Supervision of undergraduate researchers</i>		
02/2018–06/2020	Alexandre Amice (now Ph.D. student at MIT) <i>Technical supervision</i>	U. Pennsylvania (Main supervisor: A. Ribeiro)
<i>Teaching</i>		
01/2020–05/2020	<b>University of Pennsylvania</b> <i>Undergraduate signal processing (approx. 60 students)</i>	Co-lecturer (virtual)
01/2018–01/2020	<b>University of Pennsylvania</b> <i>Undergraduate signal processing (70–85 students, 2 terms)</i>	Co-lecturer
01/2016–12/2019	<b>University of Pennsylvania</b> <i>Undergraduate stochastic processes (65–80 students, 4 terms)</i> <i>Undergraduate signal processing (70–85 students, 3 terms)</i>	Teaching assistant
2013–2014	<b>University of São Paulo</b> <i>Undergraduate stochastic processes</i> Created instructional videos that have accumulated over 490 followers and 120.000 views ( <a href="#">Youtube channel</a> —in Portuguese)	Teaching assistant
2009	<b>INSAVALOR Formation Continue</b> <i>Undergraduate laboratories, certifying workshops (COFREND and Dassault Aviation), and development of tutorial on nondestructive testing of concrete</i>	Instructor
<i>Mentoring</i>		
02/2022–03/2022	<b>Women in STEM</b> <b>ENVISION</b> research competition	Judge
10/2019	<b>University of Pennsylvania</b> <b>Meyerhoff Scholars</b> meeting (U. Maryland program supporting diversity in STEM)	
06/2019–09/2019	<b>University of Pennsylvania</b> <b>SUNFEST</b> (research experience for undergraduate program)	Mentor
06/2018–09/2018	<b>University of Pennsylvania</b> <b>SUNFEST</b> (research experience for undergraduate program)	Mentor
09/2017	<b>University of Pennsylvania</b> <b>Meyerhoff Scholars</b> meeting (U. Maryland program supporting diversity in STEM)	

## MEMBERSHIP IN SCIENTIFIC ASSOCIATION

10/2022–present	ELLIS and ELLIS Unit Stuttgart
01/2012–present	IEEE (Signal Processing Society and Control Systems Society)

## REFEREE

<b>Journals</b>	IEEE Trans. on Signal Processing ( <i>outstanding editorial board service award</i> ); IEEE Trans. on Automatic Control; IEEE Signal Processing Magazine; Proceedings of the IEEE; IEEE Signal Processing Letters; IEEE Journal of Selected Topics in Signal Processing; IEEE Trans. on Signal and Information Processing over Networks IEEE Trans. on Control of Network Systems
<b>Conferences</b>	NeurIPS, ICML, IEEE ICASSP, IEEE CDC, EUSIPCO

## RESEARCH MANAGEMENT

- |                 |  |                     |
|-----------------|--|---------------------|
| 06/2022         | <b>University of California, Berkeley</b>                              | Training            |
|                 | <i>Intersections: Preventing harassment &amp; sexual violence</i>      |                     |
| 08/2013–07/2019 | <b>University of São Paulo</b> and <b>Analog Devices</b>               | Technology transfer |
|                 | <i>"Sparse cascaded-integrator-comb filters" (Patent US10367477B2)</i> |                     |

## LANGUAGES

*English* (fluent), *French* (fluent), *Portuguese* (fluent), *Spanish* (advanced), *Greek* (basic), *German* (A1)

## PUBLICATION LIST

Total number: 63

Citations: 1731

h-index: 22

 Google Scholar 0000-0001-7731-6650

(Note: highlighted publications are marked with a ★)

## Preprints

- [1] **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>.
- [2] **L. F. O. Chamon** and C. G. Lopes. Combination of LMS adaptive filters with coefficients feedback. *arXiv*, 2016. URL: <https://arxiv.org/abs/1608.03248>.

## Patents

- [1] D. Lamb, **L. F. O. Chamon**, V. H. Nascimento, and A. Spirer. Sparse cascaded-integrator-comb filters, 2019. URL: <https://patents.google.com/patent/US10367477B2>. US10367477B2.

## Journals

- ★ [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], 2024. URL: <https://arxiv.org/abs/2102.11941>.
- [2] C. G. Lopes, V. H. Nascimento, and **L. F. O. Chamon**. Distributed universal adaptive networks. *IEEE Trans. on Signal Process.*, 71, 2023. URL: <https://arxiv.org/abs/2307.05746>.
- [3] 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], 2023. URL: <https://arxiv.org/abs/1911.09101>.
- [4] L. Ruiz, **L. F. O. Chamon**, and A. Ribeiro. Transferability properties of graph neural networks. *IEEE Trans. on Signal Process.*, 71, 2023. URL: <https://arxiv.org/abs/2112.04629>.
- ★ [5] **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], 2023. URL: <https://arxiv.org/abs/2103.05134>.
- [6] **L. F. O. Chamon**, A. Amice, and A. Ribeiro. Approximately supermodular scheduling subject to matroid constraints. *IEEE Trans. on Autom. Control.*, 67[3], 2022. URL: <https://arxiv.org/abs/2003.08841>.
- ★ [7] L. Ruiz, **L. F. O. Chamon**, and A. Ribeiro. Graphon signal processing. *IEEE Trans. on Signal Process.*, 69, 2021. URL: <https://arxiv.org/abs/2003.05030>.
- ★ [8] **L. F. O. Chamon**, G. J. Pappas, and A. Ribeiro. Approximate supermodularity of Kalman filter sensor selection. *IEEE Trans. on Autom. Control.*, 66[1], 2021. URL: <https://arxiv.org/abs/1912.03799>.
- [9] M. Peifer, **L. F. O. Chamon**, S. Paternain, and A. Ribeiro. Sparse multiresolution representations with adaptive kernels. *IEEE Trans. on Signal Process.*, 68[1], 2020. URL: <https://arxiv.org/abs/1905.02797>.
- [10] **L. F. O. Chamon**, Y. C. Eldar, and A. Ribeiro. Functional nonlinear sparse models. *IEEE Trans. on Signal Process.*, 68[1], 2020. URL: <https://arxiv.org/abs/1811.00577>.
- ★ [11] 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], 2019. URL: <https://arxiv.org/abs/1807.08088>. [Top 50 most accessed articles in IEEE TSP: May, July, Sept, Oct 2019].



- ★ [12] **L. F. O. Chamon** and A. Ribeiro. Greedy sampling of graph signals. *IEEE Trans. on Signal Process.*, 66[1], 2018. URL: <https://arxiv.org/abs/1704.01223>.
- [13] D. Lamb, **L. F. O. Chamon**, and V. H. Nascimento. An efficient filtering structure for spline interpolation and decimation. *IET Electronics Letters*, 52[1], 2016.
- [14] H. F. Ferro, **L. F. O. Chamon**, and C. G. Lopes. FIR-IIR adaptive filters hybrid combination. *IET Electronics Letters*, 50[7], 2014.

## ML & Systems Conferences

- [1] J. Elenter, **L. F. O. Chamon**, and A. Ribeiro. Near-optimal solutions of constrained learning problems. In *International Conference on Learning Representations (ICLR)*, 2024. URL: <https://arxiv.org/abs/2403.11844>.
- [2] 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>.
- [3] I. Hounie, A. Ribeiro, and **L. F. O. Chamon**. Resilient constrained learning. In *Conference on Neural Information Processing Systems (NeurIPS)*, 2023. URL: <https://arxiv.org/abs/2306.02426>.
- [4] I. Hounie, **L. F. O. Chamon**, and A. Ribeiro. Automatic data augmentation via invariance-constrained learning. In *International Conference on Machine Learning (ICML)*, 2023. URL: <https://arxiv.org/abs/2209.15031>.
- [5] A. Robey, **L. F. O. Chamon**, G. J. Pappas, and H. Hassani. Probabilistically robust learning: Balancing average- and worst-case performance. In *International Conference on Machine Learning (ICML)*, 2022. URL: <https://arxiv.org/abs/2202.01136>. **[spotlight]**.
- ★ [6] 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).
- ★ [7] 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>.
- ★ [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] 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)*, 2019. URL: <https://arxiv.org/abs/1910.13393>.
- [10] B. Arzani, S. Ciraci, **L. F. O. Chamon**, Y. Zhu, H. Liu, J. Padhye, B. T. Loo, and G. Outhred. 007: Democratically finding the cause of packet drops. In *USENIX Symposium on Networked Systems Design and Implementation (NSDI)*, 2018. URL: <https://arxiv.org/abs/1802.07222>.
- [11] B. Arzani, S. Ciraci, **L. F. O. Chamon**, Y. Zhu, H. Liu, J. Padhye, G. Outhred, and B. T. Loo. Closing the network diagnostics gap with Vigil. In *SIGCOMM (Poster)*, 2017.
- [12] **L. F. O. Chamon** and A. Ribeiro. Approximate supermodularity bounds for experimental design. In *Conference on Neural Information Processing Systems (NeurIPS)*, 2017. URL: <https://arxiv.org/abs/1711.01501>.

## Control Conferences

- [1] 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>.
- [2] M. Calvo-Fullana, **L. F. O. Chamon**, and S. Paternain. Towards safe continuing task reinforcement learning. In *American Control Conference*, 2021. URL: <https://arxiv.org/abs/2102.12585>.
- [3] **L. F. O. Chamon**, A. Amice, S. Paternain, and A. Ribeiro. Resilient control: Compromising to adapt. In *IEEE Control and Decision Conference*, 2020. URL: <https://arxiv.org/abs/2004.03726>.
- [4] **L. F. O. Chamon**, S. Paternain, and A. Ribeiro. Counterfactual programming for optimal control. In *Learning for Dynamics & Control (L4DC)*, 2020.
- [5] A. Tsiamis, D. S. Kalogerias, **L. F. O. Chamon**, A. Ribeiro, and G. J. Pappas. Risk-constrained linear-quadratic regulators. In *IEEE Control and Decision Conference*, 2020. URL: <https://arxiv.org/abs/2004.04685>.
- [6] S. Paternain, M. Calvo-Fullana, **L. F. O. Chamon**, and A. Ribeiro. Learning safe policies via primal-dual methods. In *IEEE Control and Decision Conference*, 2019.
- [7] V. L. Silva, **L. F. O. Chamon**, and A. Ribeiro. Model predictive selection: A receding horizon scheme for actuator selection. In *American Control Conference*, 2019.
- [8] **L. F. O. Chamon**, A. Amice, and A. Ribeiro. Matroid-constrained approximately supermodular optimization for near-optimal actuator scheduling. In *IEEE Control and Decision Conference*, 2019.
- [9] **L. F. O. Chamon**, G. Pappas, and A. Ribeiro. The mean square error in Kalman filtering sensor selection is approximately supermodular. In *IEEE Control and Decision Conference*, 2017.

## Signal Processing Conferences

- [1] L. Ruiz, **L. F. O. Chamon**, and A. Ribeiro. Transferable graph neural networks on large-scale stochastic graphs. In *Asilomar Conference on Signals, Systems and Computers*, 2021.
- [2] 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>. **[Best paper award]**.
- [3] L. Ruiz, **L. F. O. Chamon**, and A. Ribeiro. Graphon filters: Signal processing in very large graphs. In *European Signal Processing Conference (EUSIPCO)*, 2020.
- [4] L. Ruiz, **L. F. O. Chamon**, and A. Ribeiro. The graphon Fourier transform. In *IEEE International Conference in Acoustic, Speech, and Signal Processing (ICASSP)*, 2020. URL: <https://arxiv.org/abs/1910.10195>.
- [5] **L. F. O. Chamon**, S. Paternain, M. Calvo-Fullana, and A. Ribeiro. The empirical duality gap of constrained statistical learning. In *IEEE International Conference in Acoustic, Speech, and Signal Processing (ICASSP)*, 2020. URL: <https://arxiv.org/abs/2002.05183>. **[Best student paper award]**.
- [6] M. Eisen, C. Zhang, **L. F. O. Chamon**, D. D. Lee, and A. Ribeiro. Dual domain learning of optimal resource allocations in wireless systems. In *IEEE International Conference in Acoustic, Speech, and Signal Processing (ICASSP)*, 2019.
- [7] M. Peifer, **L. F. O. Chamon**, S. Paternain, and A. Ribeiro. Sparse learning of parsimonious reproducing kernel Hilbert space models. In *IEEE Inter-*



- national Conference in Acoustic, Speech, and Signal Processing (ICASSP)*, 2019.
- [8] **L. F. O. Chamon**, Y. C. Eldar, and A. Ribeiro. Sparse recovery over nonlinear dictionaries. In *IEEE International Conference in Acoustic, Speech, and Signal Processing (ICASSP)*, 2019.
  - [9] **L. F. O. Chamon**, S. Paternain, and A. Ribeiro. Learning Gaussian processes with Bayesian posterior optimization. In *Asilomar Conference on Signals, Systems and Computers*, 2019.
  - [10] M. Eisen, C. Zhang, **L. F. O. Chamon**, D. D. Lee, and A. Ribeiro. Online deep learning in wireless communication systems. In *Asilomar Conference on Signals, Systems and Computers*, 2018.
  - [11] M. Peifer, **L. F. O. Chamon**, S. Paternain, and A. Ribeiro. Locally adaptive kernel estimation using sparse functional programming. In *Asilomar Conference on Signals, Systems and Computers*, 2018.
  - [12] **L. F. O. Chamon**, Y. C. Eldar, and A. Ribeiro. Strong duality of sparse functional optimization. In *IEEE International Conference in Acoustic, Speech, and Signal Processing (ICASSP)*, 2018.
  - [13] **L. F. O. Chamon** and A. Ribeiro. Finite-precision effects on graph filters. In *IEEE Global Conference on Signal and Information Processing (GlobalSip)*, 2017.
  - [14] **L. F. O. Chamon** and A. Ribeiro. Universal bounds for the sampling of graph signals. In *IEEE International Conference in Acoustic, Speech, and Signal Processing (ICASSP)*, 2017.
  - [15] **L. F. O. Chamon** and A. Ribeiro. Near-optimality of greedy set selection in the sampling of graph signals. In *IEEE Global Conference on Signal and Information Processing (GlobalSip)*, 2016.
  - [16] C. G. Lopes, **L. F. O. Chamon**, and V. H. Nascimento. Towards spatially universal adaptive networks. In *IEEE Global Conference on Signal and Information Processing (GlobalSip)*, 2014.
  - [17] **L. F. O. Chamon** and C. G. Lopes. There's plenty of room at the bottom: Incremental combinations of sign-error LMS filters. In *IEEE International Conference in Acoustic, Speech, and Signal Processing (ICASSP)*, 2014.
  - [18] **L. F. O. Chamon** and A. M. P. de Lucena. Determination of the minimum distance between symbols of the two non-orthogonal M-QAM carriers. In *Brazilian Telecommunication Symposium (SBTr)*, 2013.
  - [19] **L. F. O. Chamon** and C. G. Lopes. On parallel-incremental combinations of LMS filters that outperform the Affine Projection Algorithm. In *Brazilian Telecommunication Symposium (SBTr)*, 2013.
  - [20] **L. F. O. Chamon** and C. G. Lopes. Transient performance of an incremental combination of LMS filters. In *European Signal Processing Conference (EU-SIPCO)*, 2013.
  - [21] R. F. Bittencourt, **L. F. O. Chamon**, S. Futatsugui, J. I. Yanagihara, and S. N. Y. Gerges. Preliminary results on the modeling of aircraft vibroacoustic comfort. In *INTERNOISE*, 2012.
  - [22] **L. F. O. Chamon**, H. F. Ferro, and C. G. Lopes. A data reuse algorithm based on incremental combination of LMS filters. In *Asilomar Conference on Signals, Systems and Computers*, 2012.
  - [23] **L. F. O. Chamon**, W. B. Lopes, and C. G. Lopes. Combination of adaptive filters with coefficients feedback. In *IEEE International Conference in Acoustic, Speech, and Signal Processing (ICASSP)*, 2012.

- [24] **L. F. O. Chamon** and C. G. Lopes. Combination of adaptive filters for relative navigation. In *European Signal Processing Conference (EUSIPCO)*, 2011.
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