LUIZ F. O. CHAMON

luiz.chamon@simtech.uni-stuttgart.de luizchamon.com

ACADEMIC POSITIONS

10/2022–present **University of Stuttgart** Independent research group leader
ELLIS–SimTech / KI institute

12/2022–present **International Max Planck Research School for Intelligent Systems** Faculty

07/2021–09/2022 **University of California, Berkeley** Postdoctoral fellow
Simons Institute for the Theory of Computing

10/2020–06/2021 **University of Pennsylvania** Postdoctoral researcher
Electrical and Systems Engineering Dept.

EDUCATION

09/2015–12/2020 **University of Pennsylvania** Ph.D. in Electrical Engineering
Thesis: Constrained learning and inference (Advisor: Alejandro Ribeiro)

02/2012–02/2015 **University of São Paulo** M.Sc. in Electrical Engineering
Thesis: Combinations of adaptive filters (Advisor: Cássio G. Lopes)

01/2009–06/2009 **École Centrale de Lyon** and **INSA-Lyon** Undergraduate exchange
M.Sc. in Acoustics

02/2006–05/2011 **University of São Paulo** B.Sc. in Electrical Engineering
Electronic Systems Engineering Dept.

PROFESSIONAL EXPERIENCE

02/2015–08/2015 **University of São Paulo** Research staff
Electronic Systems Engineering Dept.
Design and prototype of an open source microphone array for acoustic imaging (**GitHub**)

02/2010–12/2013 **University of São Paulo** Research staff
Mechanical Engineering Dept.
Responsible for designing and implementing the vibroacoustic system of a full-sized aircraft cabin simulator in collaboration with *EMBRAER*

04/2014–03/2015 **EMBRAER S.A.** Consultant
Statistical analysis of comfort data from over 1000 individuals collected over the course of more than 60 simulated flights

10/2009–12/2011 **University of São Paulo** Student researcher
Mechanical Engineering Dept.
Auralization study in collaboration with the Federal University of Santa Catarina (Brazil) and the *Institut für Technische Akustik* (RWTH, Germany)

02/2009–06/2009 **INSACAST Formation Continue** Consultant
Design of a crack detection system for *Saint-Gobain*

01/2004–08/2004 **National Institute for Space Research (INPE)** Laboratory assistant
Power Supply Group
Contributed to solar cells tests, project revisions, and *power budget negotiations* with Chinese delegations

AWARDS

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
  Dept. of Electrical and Systems Engineering, University of Pennsylvania
- Travel grants to major conferences, such as IEEE ICASSP, NeurIPS, and NSDI.

SELECTED PUBLICATIONS

Total number: 62
Citations: 1389
h-index: 19

Google Scholar
0000-0001-7731-6650

[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.*, 2024. URL: https://arxiv.org/abs/2102.11941.

[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. 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. 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.

[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. URL: https://arxiv.org/abs/1912.03799.

[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. URL: https://arxiv.org/abs/2006.03548.

[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], 2019. 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)*, 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], 2018. URL: https://arxiv.org/abs/1704.01223.

INVITED TALKS

2024	• Tutorial: "Constrained learning from supervised to reinforced"	AAAI
2023	• Cyber Valley at University of Stuttgart	U. Stuttgart
	• SimTech 2023	U. Stuttgart
	• IMPRS-IS tutorial: "Adversarially robust learning"	MPI–Tübingen
	• Data Science and Dependence Conference	IWH–Heidelberg
	• *Kolloquium Technische Kybernetik*	U. Stuttgart
	• SimTech ML sessions	U. Stuttgart
	• *SHIFT: KI und eine zukünftige Gemeinschaft*	Kunstmuseum Stuttgart
	• ELLIS/CIS Network Seminar	EPFL
2022	• Young Investigators Lecture Series	Caltech
	• Foundations of Data Science Institute (FODSI) retreat	Simons Institute
2021	• Deep Learning Theory Symposium	Simons Institute
	• Microsoft Research	
	• EECS seminar	MIT
	• Mathematical Institute for Data Science (MINDS)	Johns Hopkins U.
	• Toyota Technological Institute at Chicago (TTIC)	
2020	• Center for Wireless Autonomous Systems	Intel

MEMBERSHIP IN SCIENTIFIC ASSOCIATION

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

REFEREE

Journals IEEE Trans. on Signal Processing (*outstanding editorial board service award*); IEEE Trans. on Automatic Control; IEEE Signal Processing Magazine; Proceedings of the IEEE; IEEE Journal of Selected Topics in Signal Processing; IEEE Trans. on Signal and Information Processing over Networks…

Conferences NeurIPS, ICML, IEEE ICASSP, IEEE CDC…

ACADEMIC SELF-ADMINISTRATION

10/2023–09/2027	**University of Stuttgart** *General assembly of the Stuttgart Center for Simulation Science*	Deputy member
05/2020–12/2020	**University of Pennsylvania** *Penn Engineering COVID-19 Research and Academic Safety Committee*	PhD representative
01/2020–03/2020	**University of Pennsylvania** *PhD student hiring committee*	Evaluator
09/2017–07/2018	**University of Pennsylvania** *ESE PhD colloquium*	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 *(co-supervisor; main supervisor: Prof. Dr. Alejandro Ribeiro)*	U. Pennsylvania
08/2019–09/2022	Luana Ruiz (now assistant professor at John Hopkins U.) *(co-supervisor; main supervisor: Prof. Dr. Alejandro Ribeiro)*	U. Pennsylvania
06/2018–07/2021	Maria Peifer *(co-supervisor; main supervisor: Prof. Dr. Alejandro Ribeiro)*	U. Pennsylvania

Supervision of undergraduate researchers

02/2018–06/2020	Alexandre Amice (now PhD student at MIT) *(co-supervisor; main supervisor: Prof. Dr. Alejandro Ribeiro)*	U. Pennsylvania

Teaching

01/2016–05/2020	**University of Pennsylvania** *Undergraduate stochastic processes and signal processing*	Teaching assistant and Lecturer
2013–2014	**University of São Paulo** *Undegraduate stochastic processes* Created instructional videos that have accumulated over 490 followers and 120.000 views (**Youtube**—in Portuguese)	Teaching assistant
2009	**INSACAST Formation Continue** Taught undergraduate laboratories, certifying workshops (COFREND and Dassault Aviation), and developed tutorial on nondestructive testing of concrete	Instructor

Mentoring

02/2022–03/2022	**Women in STEM** **ENVISION** *research competition*	Judge
10/2019	**University of Pennsylvania** **Meyerhoff Scholars** *meeting (U. Maryland program supporting diversity in STEM)*	
06/2019–09/2019	**University of Pennsylvania** *Research experience for undergraduate program* (**SUNFEST**)	Mentor
06/2018–09/2018	**University of Pennsylvania** *Research experience for undergraduate program* (**SUNFEST**)	Mentor
09/2017	**University of Pennsylvania** **Meyerhoff Scholars** *meeting (U. Maryland program supporting diversity in STEM)*	

RESEARCH MANAGEMENT

06/2022	**University of California, Berkeley** *Intersections: Preventing Harassment & Sexual Violence*	Training
08/2013–07/2019	**University of São Paulo** and **Analog Devices** *"Sparse cascaded-integrator-comb filters"* (**Patent US10367477B2**)	Technology transfer

LANGUAGES

English (TOEFL iBT 2014: 114), *French* (fluent), *Portuguese* (fluent), *Spanish* (advanced), *Greek* (basic)

PUBLICATION LIST

(**Note:** selected 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.*, 2024. URL: https://arxiv.org/abs/2102.11941.

[1] 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.

[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], 2023. URL: https://arxiv.org/abs/1911.09101.

[3] 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.

[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. URL: https://arxiv.org/abs/2103.05134.

[4] **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.

[4] 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.

[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. URL: https://arxiv.org/abs/1912.03799.

[5] 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.

[6] **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.

[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. URL: https://arxiv.org/abs/1807.08088. **[Top 50 most accessed articles in IEEE TSP: May, July, Sept, Oct 2019]**.

[10] **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.

[7] 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.

[8] 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. 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] 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.

[3] 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.

[4] 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]**.

[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).

[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. URL: https://arxiv.org/abs/2006.03548.

[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.

[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.

[5] 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.

[6] 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.

[7] **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 International 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 (SBrT)*, 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 (SBrT)*, 2013.

[20] **L. F. O. Chamon** and C. G. Lopes. Transient performance of an incremental combination of LMS filters. In *European Signal Processing Conference (EUSIPCO)*, 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 reusage 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.

[25] **L. F. O. Chamon**, G. S. Quiqueto, S. R. Bistafa, and V. H. Nascimento. An SVD-based MIMO equalizer applied to the auralization of aircraft noise in a cabin simulator. In *18th International Congress on Sound and Vibration (ICSV)*, 2011.

[26] G. S. Quiqueto, **L. F. O. Chamon**, and S. R. Bistafa. Preliminary results on the development of an aircraft cabin N&V simulator. In *II SAE Brazil International Noise and Vibration Congress*, 2010.

[27] **L. F. O. Chamon**, G. S. Quiqueto, and S. R. Bistafa. The application of the Singular Value Decomposition for the decoupling of the vibratory reproduction system of an aircraft cabin simulator. In *II SAE Brazil International Noise and Vibration Congress*, 2010.