

Full Publication List

Antônio Horta Ribeiro

Summary

- Samples of my work on **machine learning**: ICLR (2026) [C1], NeurIPS (2025) [C3], ICML (2025) [C4], AISTATS (2025) [C5], NeurIPS (2024) [C9], ICML (2024) [C10], NeurIPS (2023) [C11], AISTATS (2020) [C18].
- Samples of my work on **system identification** and **signal processing**: AUTOMATICA (2025) [J15], ICASSP (2025) [C2], IEEE TRANSACTIONS ON SIGNAL PROCESSING (2023) [J24], ICASSP (2021) [C12], AUTOMATICA (2020) [J42].
- Samples of my work on **medical applications**: NATURE COMMUNICATIONS (2026) [J6], NPJ DIGITAL MEDICINE (2026) [J4], NPJ DIGITAL MEDICINE (2025) [J8], NPJ DIGITAL MEDICINE (2025) [J11], NPJ DIGITAL MEDICINE (2024) [J20], IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING (2023) [J25], CIRCULATION (2023) [J30], NATURE COMMUNICATIONS (2022) [J34], NATURE COMMUNICATIONS (2021) [J36], NATURE COMMUNICATIONS (2020) [J41].

Journal articles

- [J1] A. L. P. Ribeiro, C. S. Cardoso, C. A. Taconeli, C. Di Lorenzo Oliveira, P. R. Gomes, L. C. Oliveira-da Silva, A. M. Ferreira, N. D. Quintino, N. R. Baldoni, A. C. d. O. Gonçalves, W. C. Vinhal, D. S. Cruz, S. F. Leite, A. C. de Jesus Santos, L. d. A. Silva, F. A. Cardoso Medeiros, M. S. Mendes, I. Molina, M. C. P. Nunes, T. B. Schön, **A. H. Ribeiro**, and E. C. Sabino. “*Opportunistic Screening for Chagas Disease Using an Artificial Intelligence–Enabled ECG: Prospective Evaluation of Feasibility and Diagnostic Accuracy*” In: CIRCULATION 0.0 (2026).
DOI: 10.1161/CIRCULATIONAHA.125.078949.
- [J2] F. Taleb, F. Darki, M. Vasco, **A. H. Ribeiro**, M. Toneva, J. N. Lundstrom, and D. Kragic. “*On the Alignment between Chemical Foundation Models and Neural Processing of Olfactory Perception*” In: MACHINE LEARNING: SCIENCE AND TECHNOLOGY (2026).
DOI: 10.1088/2632-2153/ae9351.
- [J3] E. Zvuloni, G. Gagliardi, **A. H. Ribeiro**, A. L. P. Ribeiro, M. De Vos, and J. A. Behar. “*A multi-source domain fine-tuning framework for deep generalization performance in physiological time series analysis*” In: MACHINE LEARNING: HEALTH (2026).
DOI: 10.1088/3049-477X/ae2ac5.
- [J4] P. E. O. G. B. Abreu, G. M. M. Paixão, J. Li, P. R. Gomes, P. W. Macfarlane, A. C. S. Oliveira, V. T. Carvalho, T. B. Schön, A. L. P. Ribeiro, and **A. H. Ribeiro**. “*CODE-II: A large-scale dataset for artificial intelligence in ECG analysis*” In: NPJ DIGITAL MEDICINE (2026).
DOI: 10.1038/s41746-026-02704-4.
- [J5] X. Gu, W. Tang, J. Han, V. Sangha, F. Liu, S. N. Gowda, **A. H. Ribeiro**, P. Schwab, K. Branson, L. Clifton, A. L. P. Ribeiro, Z. Liu, and D. A. Clifton. “*Cardiac health assessment across scenarios and devices using a multimodal foundation model pretrained on data from 1.7 million individuals*” In: NATURE MACHINE INTELLIGENCE 8.2 (2026), pp. 220–233.
DOI: 10.1038/s42256-026-01180-5.
Cover of the february issue
- [J6] S. Gustafsson, **A. H. Ribeiro**, D. Gedon, P. E. O. G. B. Abreu, N. Pielawski, G. M. M. Paixão, M. A. Gutierrez, J. E. Krieger, F. M. Dias, A. L. P. Ribeiro, D. Lindholm, T. B. Schön, and J. Sundström. “*A deep learning ECG model for localization of occlusion myocardial infarction*” In: NATURE COMMUNICATIONS 17.1 (2026).
DOI: 10.1038/s41467-026-73023-1.
- [J7] A. Boubekki, K. Patlatzoglou, J. Barker, H. Aggour, F. S. Ng, and **A. H. Ribeiro**. “*Explaining deep learning for ECG using time-localized clusters*” In: IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING (2026).
DOI: 10.1109/TBME.2026.3702945.

- [J8] K. Patlatzoglou, L. Pastika, J. Barker, E. Sieliwonczyk, G. R. Khattak, B. Zeidaabadi, **A. H. Ribeiro**, J. S. Ware, N. S. Peters, A. L. P. Ribeiro, D. B. Kramer, J. W. Waks, A. Sau, and F. S. Ng. “*The cost of explainability in artificial intelligence-enhanced electrocardiogram models*” In: NPJ DIGITAL MEDICINE 8.1 (2025), p. 747.
- [J9] A. Sau, B. Zeidaabadi, K. Patlatzoglou, L. Pastika, **A. H. Ribeiro**, E. Sabino, N. S. Peters, A. L. P. Ribeiro, D. B. Kramer, J. W. Waks, and F. S. Ng. “*A comparison of artificial intelligence-enhanced electrocardiography approaches for the prediction of time to mortality using electrocardiogram images*” In: EUROPEAN HEART JOURNAL - DIGITAL HEALTH 6.2 (2025), pp. 180–189.
DOI: 10.1093/ehjdh/ztae090.
- [J10] L. C. Brant, **A. H. Ribeiro**, O. B. Eromosele, M. M. Pinto-Filho, S. M. Barreto, B. B. Duncan, M. G. Larson, E. J. Benjamin, A. L. Ribeiro, and H. Lin. “*Prediction of Atrial Fibrillation From the ECG in the Community Using Deep Learning: A Multinational Study*” In: CIRCULATION: ARRHYTHMIA AND ELECTROPHYSIOLOGY (2025).
DOI: 10.1161/CIRCEP.125.013734.
- [J11] P. Hempel, **A. H. Ribeiro**, M. Vollmer, T. Bender, M. Dörr, D. Krefting, and N. Spicher. “*Explainable AI associates ECG aging effects with increased cardiovascular risk in a longitudinal population study*” In: NPJ DIGITAL MEDICINE 8.1 (2025).
DOI: 10.1038/s41746-024-01428-7.
- [J12] A. Sau, E. Sieliwonczyk, K. Patlatzoglou, L. Pastika, K. A. McGurk, **A. H. Ribeiro**, A. L. P. Ribeiro, J. E. Ho, N. S. Peters, and J. S. Ware. “*Artificial intelligence-enhanced electrocardiography for the identification of a sex-related cardiovascular risk continuum: a retrospective cohort study*” In: LANCET DIGIT. HEALTH 7.3 (2025), e184–e194.
- [J13] K. Sumwiza, **A. H. Ribeiro**, G. Rushingabigwi, P. Bakunzibake, and C. Twizere. “*Evaluation of AI ECG age in the prediction of cardiovascular diseases and risk factors: Exploratory data analysis*” In: JOURNAL OF ELECTROCARDIOLOGY 93 (2025), p. 154123.
DOI: 10.1016/j.jelectrocard.2025.154123.
- [J14] N. Rajabi, I. Zanettin, **A. H. Ribeiro**, M. Vasco, M. Björkman, J. N. Lundström, and D. Kragic. “*Exploring the feasibility of olfactory brain–computer interfaces*” In: SCIENTIFIC REPORTS 15.1 (2025), pp. 1–13.
DOI: 10.1038/s41598-025-01488-z.
- [J15] G. Pillonetto, A. Aravkin, D. Gedon, L. Ljung, **A. H. Ribeiro**, and T. B. Schön. “*Deep networks for system identification: a Survey*” In: AUTOMATICA (2025).
DOI: 10.1016/j.automatica.2024.111907.
- [J16] A. Sau, **A. H. Ribeiro**, K. A. McGurk, L. Pastika, N. Bajaj, M. Gurnani, E. Sieliwonczyk, K. Patlatzoglou, M. Ardissino, J. Y. Chen, H. Wu, X. Shi, K. Hnatkova, S. L. Zheng, A. Britton, M. Shipley, I. Andršová, T. Novotný, E. C. Sabino, L. Giatti, S. M. Barreto, J. W. Waks, D. B. Kramer, D. Mandic, N. S. Peters, D. P. O’Regan, M. Malik, J. S. Ware, A. L. P. Ribeiro, and F. S. Ng. “*Prognostic Significance and Associations of Neural Network–Derived Electrocardiographic Features*” In: CIRCULATION: CARDIOVASCULAR QUALITY AND OUTCOMES 0.0 (2024).
DOI: 10.1161/CIRCOUTCOMES.123.010602.
- [J17] K. A. McGurk, M. Qiao, S. L. Zheng, A. Sau, A. Henry, A. L. P. Ribeiro, **A. H. Ribeiro**, F. S. Ng, R. T. Lumbers, W. Bai, J. S. Ware, and D. P. O’Regan. “*Genetic and phenotypic architecture of human myocardial trabeculation*” In: NATURE CARDIOVASCULAR RESEARCH (2024).
DOI: 10.1038/s44161-024-00564-3.
- [J18] Z. Huang, S. MacLachlan, L. Yu, L. F. Herbozo Contreras, N. D. Truong, **A. H. Ribeiro**, and O. Kavehei. “*Generalization challenges in electrocardiogram deep learning: insights from dataset characteristics and attention mechanism*” In: FUTURE CARDIOLOGY 0.0 (2024).
DOI: 10.1080/14796678.2024.2354082.

- [J19] L. Lu, T. Zhu, **A. H. Ribeiro**, L. Clifton, E. Zhao, J. Zhou, A. L. P. Ribeiro, Y.-T. Zhang, and D. A. Clifton. “*Decoding 2.3 Million ECGs: Interpretable Deep Learning for Advancing Cardiovascular Diagnosis and Mortality Risk Stratification*”
In: EUROPEAN HEART JOURNAL - DIGITAL HEALTH (2024), ztae014.
DOI: 10.1093/ehjdh/ztae014.
- [J20] L. Pastika, A. Sau, K. Patlatzoglou, E. Sieliweczyk, **A. H. Ribeiro**, K. A. McGurk, W. R. Scott, J. S. Ware, A. L. P. Ribeiro, D. B. Kramer, J. W. Waks, and F. S. Ng. “*Artificial intelligence-enabled electrocardiogram for mortality and cardiovascular risk estimation: An actionable, explainable and biologically plausible platform*”
In: NPJ DIGITAL MEDICINE 7.167 (2024).
DOI: <https://doi.org/10.1038/s41746-024-01170-0>.
- [J21] **A. H. Ribeiro** and A. L. P. Ribeiro. “*AI-ECG and prediction of new atrial fibrillation: when the heart tells the age*”
In: EUROPEAN HEART JOURNAL (2024), ehae809.
DOI: 10.1093/eurheartj/ehae809.
- [J22] A. Sau, L. Pastika, E. Sieliweczyk, K. Patlatzoglou, A. H. Ribeiro, K. A. McGurk, B. Zeidaabadi, H. Zhang, K. Macierzanka, D. Mandic, E. Sabino, L. Giatti, S. M. Barreto, L. d. V. Camelo, I. Tzoulaki, D. P. O’Regan, N. S. Peters, J. S. Ware, A. L. P. Ribeiro, D. B. Kramer, J. W. Waks, and F. S. Ng. “*Artificial intelligence-enabled electrocardiogram for mortality and cardiovascular risk estimation: a model development and validation study*”
In: THE LANCET DIGITAL HEALTH 6.11 (2024), e791–e802.
DOI: 10.1016/S2589-7500(24)00172-9.
- [J23] P. von Bachmann, D. Gedon, F. K. Gustafsson, **A. H. Ribeiro**, E. Lampa, S. Gustafsson, J. Sundström, and T. B. Schön. “*Evaluating regression and probabilistic methods for ECG-based electrolyte prediction*”
In: SCIENTIFIC REPORTS 14.1 (2024), p. 15273.
DOI: 10.1038/s41598-024-65223-w.
- [J24] **A. H. Ribeiro** and T. B. Schön. “*Overparameterized Linear Regression under Adversarial Attacks*”
In: IEEE TRANSACTIONS ON SIGNAL PROCESSING (2023).
DOI: 10.1109/TSP.2023.3246228.
- [J25] E. Zvuloni, J. Read, **A. H. Ribeiro**, A. L. P. Ribeiro, and J. A. Behar. “*On Merging Feature Engineering and Deep Learning for Diagnosis, Risk-Prediction and Age Estimation Based on the 12-Lead ECG*”
In: IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING (2023).
DOI: 10.1109/TBME.2023.3239527.
- [J26] D. Gedon, **A. H. Ribeiro**, N. Wahlström, and T. B. Schön. “*Invertible Kernel PCA with Random Fourier Features*”
In: IEEE SIGNAL PROCESSING LETTERS (2023).
DOI: 10.1109/LSP.2023.3275499.
- [J27] T. Lindow, M. Maanja, E. B. Schelbert, **A. H. Ribeiro**, A. L. P. Ribeiro, T. T. Schlegel, and M. Ugander. “*Heart age gap by explainable advanced electrocardiography is associated with cardiovascular risk factors and survival*”
In: EUROPEAN HEART JOURNAL - DIGITAL HEALTH (2023).
DOI: 10.1093/ehjdh/ztae045.
- [J28] T. Habineza, **A. H. Ribeiro**, D. Gedon, J. A. Behar, A. L. P. Ribeiro, and T. B. Schön. “*End-to-end risk prediction of atrial fibrillation from the 12-Lead ECG by deep neural networks*”
In: JOURNAL OF ELECTROCARDIOLOGY 81 (2023), pp. 193–200.
- [J29] L. C. C. Brant, **A. H. Ribeiro**, M. M. Pinto-Filho, J. Kornej, S. R. Preis, B. Eromosele, J. W. Magnani, J. M. Murabito, M. G. Larson, E. J. Benjamin, A. L. P. Ribeiro, and H. Lin. “*Electrocardiographic Age Predicts Cardiovascular Events in Community: The Framingham Heart Study*”
In: CIRCULATION: CARDIOVASCULAR QUALITY AND OUTCOMES (2023).
DOI: 10.1161/CIRCOUTCOMES.122.009821.
- [J30] V. Sangha, A. A. Nargesi, L. S. Dhingra, B. J. Mortazavi, **A. H. Ribeiro**, C. A. Brandt, E. J. Miller, A. L. P. Ribeiro, E. J. Velazquez, H. M. Krumholz, and R. Khera. “*Detection of Left Ventricular Systolic Dysfunction from Electrocardiographic Images*”
In: CIRCULATION (2023).
DOI: 10.1161/CIRCULATIONAHA.122.062646.

- [J31] C. Zhang, X. Miao, B. Wang, **A. H. Ribeiro**, L. Brant, A. L. P. Ribeiro, and H. Lin. “Association of lifestyle with deep-learning based ECG-age”
In: FRONTIERS IN CARDIOVASCULAR MEDICINE (2023).
DOI: 10.3389/fcvm.2023.1160091.
- [J32] C. Jidling, D. Gedon, T. B. Schön, C. D. L. Oliveira, C. S. Cardoso, A. M. Ferreira, L. Giatti, S. M. Barreto, E. C. Sabino, A. L. P. Ribeiro, and **A. H. Ribeiro**. “Screening for Chagas disease from the electrocardiogram using a deep neural network”
In: PLOS NEGLECTED TROPICAL DISEASES 17.7 (2023), e0011118.
DOI: 10.1371/journal.pntd.0011118.
- [J33] S. Gustafsson, D. Gedon, E. Lampa, **A. H. Ribeiro**, M. J. Holzmann, T. B. Schön, and J. Sundström. “Development and validation of deep learning ECG-based prediction of myocardial infarction in emergency department patients”
In: SCIENTIFIC REPORTS 12.1 (2022), p. 19615.
Equal contribution: S. Gustafsson and D. Gedon
- [J34] V. Sangha, B. J. Mortazavi, A. D. Haimovich, **A. H. Ribeiro**, C. A. Brandt, D. L. Jacoby, W. L. Schulz, H. M. Krumholz, A. L. P. Ribeiro, and R. Khera. “Automated multilabel diagnosis on electrocardiographic images and signals”
In: NATURE COMMUNICATIONS 13 (2022), p. 1583.
DOI: 10.1038/s41467-022-29153-3.
- [J35] G. M. M. Paixão, E. M. Lima, P. R. Gomes, D. M. Oliveira, M. H. Ribeiro, J. S. Nascimento, **A. H. Ribeiro**, P. W. Macfarlane, and A. L. P. Ribeiro. “Electrocardiographic Predictors of Mortality: Data from a Primary Care Tele-Electrocardiography Cohort of Brazilian Patients”
In: HEARTS 2.4 (2021), pp. 449–458.
DOI: 10.3390/hearts2040035.
- [J36] E. M. Lima, **A. H. Ribeiro**, G. M. M. Paixão, M. H. Ribeiro, M. M. P. Filho, P. R. Gomes, D. M. Oliveira, E. C. Sabino, B. B. Duncan, L. Giatti, S. M. Barreto, W. Meira, T. B. Schön, and A. L. P. Ribeiro. “Deep neural network estimated electrocardiographic-age as a mortality predictor”
In: NATURE COMMUNICATIONS 12 (2021).
DOI: 10.1038/s41467-021-25351-7.
Equal contribution: E. M. Lima, A. H. Ribeiro, G. M. M. Paixao
- [J37] S. Biton, S. Gendelman, **A. H. Ribeiro**, G. Miana, C. Moreira, A. L. P. Ribeiro, and J. A. Behar. “Atrial fibrillation risk prediction from the 12-lead ECG using digital biomarkers and deep representation learning”
In: EUROPEAN HEART JOURNAL - DIGITAL HEALTH (2021).
DOI: 10.1093/ehjdh/ztab071.
- [J38] P. Virtanen, R. Gommers, T. E. Oliphant, M. Haberland, T. Reddy, D. Cournapeau, E. Burovski, P. Peterson, W. Weckesser, J. Bright, S. J. van der Walt, M. Brett, J. Wilson, K. J. Millman, N. Mayorov, A. R. J. Nelson, E. Jones, R. Kern, E. Larson, C. J. Carey, Í. Polat, Y. Feng, E. W. Moore, J. VanderPlas, D. Laxalde, J. Perktold, R. Cimrman, I. Henriksen, E. A. Quintero, C. R. Harris, A. M. Archibald, **A. H. Ribeiro**, F. Pedregosa, P. van Mulbregt, and S. 1. Contributors. “SciPy 1.0–Fundamental Algorithms for Scientific Computing in Python”
In: NATURE METHODS 17.3 (2020), pp. 261–272.
DOI: 10.1038/s41592-019-0686-2.
- [J39] G. M. M. Paixão, L. G. S. Silva, P. R. Gomes, E. M. Lima, M. P. F. Ferreira, D. M. Oliveira, M. H. Ribeiro, **A. H. Ribeiro**, J. S. Nascimento, J. A. Canazart, L. B. Ribeiro, E. J. Benjamin, P. W. Macfarlane, M. S. Marcolino, and A. L. Ribeiro. “Evaluation of Mortality in Atrial Fibrillation: Clinical Outcomes in Digital Electrocardiography (CODE) Study”
In: GLOBAL HEART 15.1 (2020).
DOI: 10.5334/gh.772.
- [J40] W. Meira Jr, A. L. P. Ribeiro, D. M. Oliveira, and **A. H. Ribeiro**. “Contextualized Interpretable Machine Learning for Medical Diagnosis”
In: COMMUNICATIONS OF THE ACM (2020).
DOI: 10.1145/3416965.

- [J41] **A. H. Ribeiro**, M. H. Ribeiro, G. M. M. Paixão, D. M. Oliveira, P. R. Gomes, J. A. Canazart, M. P. S. Ferreira, C. R. Andersson, P. W. Macfarlane, W. Meira Jr., T. B. Schön, and A. L. P. Ribeiro. “*Automatic diagnosis of the 12-lead ECG using a deep neural network*”
In: NATURE COMMUNICATIONS 11.1 (2020), p. 1760.
DOI: 10.1038/s41467-020-15432-4.
- [J42] **A. H. Ribeiro**, K. Tiels, J. Umenberger, T. B. Schön, and L. A. Aguirre. “*On the smoothness of nonlinear system identification*”
In: AUTOMATICA 121 (2020), p. 109158.
DOI: 10.1016/j.automatica.2020.109158.
- [J43] G. M. M. Paixão, E. M. Lima, P. R. Gomes, M. P. Ferreira, D. M. Oliveira, M. H. Ribeiro, **A. H. Ribeiro**, J. Nascimento, J. A. Canazart, G. Cardoso, L. B. Ribeiro, and A. L. P. Ribeiro. “*Evaluation of mortality in bundle branch block patients from an electronic cohort: Clinical Outcomes in Digital Electrocardiography (CODE) study*”
In: JOURNAL OF ELECTROCARDIOLOGY (2019).
DOI: 10.1016/j.jelectrocard.2019.09.004.
- [J44] A. L. P. Ribeiro, G. M. M. Paixão, P. R. Gomes, M. H. Ribeiro, **A. H. Ribeiro**, J. A. Canazart, D. M. Oliveira, M. P. Ferreira, E. M. Lima, J. L. de Moraes, N. Castro, L. B. Ribeiro, and P. W. MacFarlane. “*Tele-electrocardiography and bigdata: The CODE (Clinical Outcomes in Digital Electrocardiography) study*”
In: JOURNAL OF ELECTROCARDIOLOGY (2019).
DOI: 10.1016/j.jelectrocard.2019.09.008.
- [J45] **A. H. Ribeiro** and L. A. Aguirre. “*“Parallel Training Considered Harmful?”: Comparing series-parallel and parallel feedforward network training*”
In: NEUROCOMPUTING 316 (2018), pp. 222–231.
DOI: 10.1016/j.neucom.2018.07.071.

Conference papers

- [C1] M. Barsbey, **A. H. Ribeiro**, U. Şimşekli, and T. Birdal. “*On the Interaction of Compressibility and Adversarial Robustness*”
In: INTERNATIONAL CONFERENCE FOR LEARNING REPRESENTATIONS (ICLR) (2026).
- [C2] N. Rajabi, **A. H. Ribeiro**, M. Vasco, and D. Kragic. “*Deep learning amplified early stopping bias: Overestimating performance on small datasets*”
In: INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING (ICASSP) (2025).
DOI: 10.1109/ICASSP49660.2025.10890439.
- [C3] **A. H. Ribeiro**, D. Våvinggren, D. Zachariah, T. Schön, and F. Bach. “*Kernel Learning with Adversarial Features: Numerical Efficiency and Adaptive Regularization*”
In: ADVANCES IN NEURAL INFORMATION PROCESSING SYSTEMS (NEURIPS) (2025).
DOI: 10.48550/arXiv.2510.20883.
- [C4] N. Rajabi, **A. H. Ribeiro**, M. Vasco, F. Taleb, M. Björkman, and D. Kragic. “*Human-Aligned Image Models Improve Visual Decoding from the Brain*”
In: INTERNATIONAL CONFERENCE ON MACHINE LEARNING (ICML) (2025).
DOI: 10.48550/arXiv.2502.03081.
- [C5] **A. H. Ribeiro**, T. B. Schön, D. Zahariah, and F. Bach. “*Efficient Optimization Algorithms for Linear Adversarial Training*”
In: INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE AND STATISTICS (AISTATS) (2025).
DOI: 10.48550/arXiv.2410.12677.
- [C6] M. A. Reyna, Z. Koskova, J. Pavlus, S. Saghafi, J. Weigle, A. Elola, S. Seyed, K. Campbell, Q. Li, A. B. Rad, **A. H. Ribeiro**, A. L. P. Ribeiro, R. Sameni, and G. D. Clifford. “*Detection of Chagas Disease from the ECG: The George B. Moody PhysioNet Challenge 2025*”
In: COMPUTING IN CARDIOLOGY (CINC) (2025).
DOI: 10.48550/arXiv.2510.02202.

- [C7] G. R. Khattak, K. Patlatzoglou, Y. Liang, L. Pastika, B. Zeidaabadi, J. Barker, M. Gurnani, **A. H. Ribeiro**, J. Annis, A. L. P. Ribeiro, N. Peters, J. Ge, D. B. Kramer, J. W. Waks, E. Brittain, A. Sau, and F. S. Ng. “*Contrasting by Augmented Patient Electrocardiograms to Learn Representations for a Foundation Model*” In: INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE IN MEDICINE 15735 (2025), pp. 202–206.
DOI: 10.1007/978-3-031-95841-0_38.
- [C8] A. Eriksson, T. B. Schön, and A. H. Ribeiro. “*Transferability and Adversarial Training in Automatic Classification of the Electrocardiogram with Deep Learning*” In: COMPUTING IN CARDIOLOGY (CINC) (2024).
DOI: 10.22489/CinC.2024.096.
- [C9] F. Taleb, M. Vasco, **A. H. Ribeiro**, M. Björkman, and D. Kragic. “*Can Transformers Smell Like Humans?*” In: ADVANCES IN NEURAL INFORMATION PROCESSING SYSTEMS (NEURIPS) (2024).
DOI: 10.48550/arXiv.2411.03038.
Spotlight paper
- [C10] D. Gedon, **A. H. Ribeiro**, and T. B. Schön. “*No Double Descent in Principal Component Regression: A High-Dimensional Analysis*” In: INTERNATIONAL CONFERENCE ON MACHINE LEARNING (ICML) (2024).
- [C11] **A. H. Ribeiro**, D. Zachariah, F. Bach, and T. B. Schön. “*Regularization properties of adversarially-trained linear regression*” In: ADVANCES IN NEURAL INFORMATION PROCESSING SYSTEMS (NEURIPS) (2023).
DOI: 10.48550/arXiv.2310.10807.
Spotlight paper
- [C12] **A. H. Ribeiro** and T. B. Schön. “*How convolutional neural networks deal with aliasing*” In: IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH AND SIGNAL PROCESSING (ICASSP) (2021), pp. 2755–2759.
DOI: 10.1109/ICASSP39728.2021.9414627.
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