Curriculum Vitae
Antônio Horta Ribeiro
May 28, 2024

1. Personal Information

- **Birthdate and place:** 1992-10-21, Brazil.
- **Work Address:** Room 308, Teknikringen 14, KTH SE-100 44 Stockholm, Sweden
- **Emails and phone number:** antonior92@gmail.com; anhr@kth.se, + 46 70 254 42 85
- **Website:** antonior92.github.io.

2. Academic Positions

- **Postdoctoral Associate** *Fev. 2022 - Now* - KTH Royal Institute of Technology, Stockholm, Sweden
- **Postdoctoral Fellow** *Fev. 2021 - Jan. 2023* - Department of Information Technology, Uppsala University, Uppsala, Sweden
- **Postdoctoral Associate** *Mar. 2020 - Fev. 2021* - Department of Computer Science, UFMG, Belo Horizonte, Brasil

3. Education

- **Ph.D., Electrical Engineering** *Aug. 2017 - Mar. 2020* - Universidade Federal de Minas Gerais (UFMG),Brazil
- **M.Sc., Electrical Engineering** *Jan. 2016 - Jul. 2017* - Universidade Federal de Minas Gerais (UFMG),Brazil
- **B.S.E., Electrical Engineering** *Jan. 2016 - Jul. 2017* - Universidade Federal de Minas Gerais (UFMG),Brazil

4. Awards

- **Benzelius award** *2022* - Royal Society of Sciences in Uppsala
- **Best Ph.D. Thesis in Engineering and Physical Sciences** *2021* - Universidade Federal de Minas Gerais
- **Best Ph.D. Thesis in Electrical Engineering** *2021* - Universidade Federal de Minas Gerais
- **Young Author Award (Honorable Mention)** *2021* - 19th IFAC Symposium on System Identification
- **Best Poster Award** *2019* - SciLifeLab Science Summit
- **Travel Award** *2018* - Machine Learning for Health (ML4H) Workshop at NeurIPS

5. Scholarships

- **UGhent mobility grant** *2023* - Ghent University - 10.000 EUR,Sweden
- **SFVE-A mobility grant** *2023* - French Institute of Sweden,Sweden
- **ELISE mobility grant** *2023* - European Network of AI Excellence Centres,Europe
- **CAPES-PRINT** *2020-2021* - CAPES,Brazil
- **Split-site Ph.D. Scholarship** *2019* - CNPq,Brazil
- **Ph.D. Scholarship** *2018-2020* - CNPq,Brazil
- **M.S. Scholarship** *2016-2017* - CAPES,Brazil

6. Supervision

A) Ph.D. students, co-supervisor

- **Daniel Gedon** *Aug. 2019 - June 2024 (estimated)* - Uppsala University, Sweden

B) M.Sc. students, supervisor

- **Arvid Eriksson** *Jan 2024 - June 2024 (estimated)* - KTH, Sweden
- **Oscar Larsson** *Feb. 2022 - July 2022* - Uppsala University, Sweden
- **Theogene Habineza** *Jan. 2022 - June 2022* - Uppsala University, Sweden

C) M.Sc. students, subject reviewer

- **Johan Millberg** *Jan. 2023 - June 2023* - Uppsala University, Sweden
- **Christie Courtnage** *Jan. 2022 - June 2022* - Uppsala University, Sweden
- **Meenal Pathak** *Feb. 2022 - Apr. 2022* - Uppsala University, Sweden

7. Longer scientific visits

- **Ecolé Normale Superiore / INRIA** *March 2023 - June 2023 -* VISITING RESEARCHER, PARIS, FRANCE
- **Uppsala University** *September 2018 - September 2019 -* VISITING PhD STUDENT, UPPSALA, SWEDEN

8. Teaching

- **Advanced Probabilistic Machine Learning** *Fall - 2022 -* UPPSALA UNIVERSITY, SWEDEN
- **Artificial Intelligence and Machine Learning** *Spring - 2022 -* WASP GRADUATE SCHOOL, SWEDEN
- **Advanced Probabilistic Machine Learning** *Fall - 2021 -* UPPSALA UNIVERSITY, SWEDEN
- **The unreasonable effectiveness of overparameterized machine learning models** *Fall - 2021 -* UPPSALA UNIVERSITY, SWEDEN
- **Deep Learning** *Spring - 2021 -* UPPSALA UNIVERSITY, SWEDEN
- **Engenharia de Controle (Control Engineering)** *2nd - 2016 -* UNIVERSIDADE FEDERAL DE MINAS GERAIS, BRAZIL
- **Controle Digital (Digital Control)** *2nd - 2016 -* UNIVERSIDADE FEDERAL DE MINAS GERAIS, BRAZIL

9. Professional activity

A) Peer reviewing: journal papers

- *Nature Communications* (2024),
- *Communications Medicine* (2023),
- *Heart* (2021),
- *IEEE Transactions on Automatic Control* (2021),
- *Heart* (2021),
- *IEEE Transactions on Instrumentation and Measurement* (2021),
- *International Journal of System Science* (2021),
- *Proceedings of the National Academy of Sciences (PNAS)* (2020),
- *Automatica* (2020),
- *IEEE Transactions on Biomedical Engineering* (2020),
- *IEEE Control Systems Letters (L-CSS)* (2020, 2024),
- *Systems and Control Letters* (2020),
- *Chaos, Solutions and Fractals* (2020),
- *Chest* (2020),
- *Journal of Electrocardiology* (2020),
- *Journal of Control, Automation and Electrical Systems* (2015-2018),

B) Peer reviewing: conference papers

- *International Conference on Artificial Intelligence and Statistics (AISTATS)* (2020-2024),
- *IFAC Symposium on System Identification (SysId)* (2021, 2024),
- *Learning for Dynamics and Control (L4DC)* (2021, 2022),
- *European Control Conference (ECC)* (2020, 2021),
- *IEEE Conference on Decision and Control (CDC)* (2020, 2024),
- *IFAC World Conference* (2017, 2020, 2023),
- *American Control Conference* (2018, 2024),
- *International Conference on Modelling, Identification and Control* (2017),

C) Expert assignments

- ELLIS (European Laboratory for Learning and Intelligent Systems) PhD Program: Recruitment evaluator *2020*
- Co-chair at the session 'Parameter Estimation 1' at the 19th IFAC Symposium on System Identification *2021*

D) External examiner in PhD. and M.Sc. defenses

- Najmeh Fayyazifar , Level: Ph.D. 2022 Edith Cowan University, Australia *Deep learning and neural architecture search for cardiac arrhythmias classification*
- Thiago de Almeida Ushikoshi , Level: M.Sc. 2022 Universidade Federal de Minas Gerails, Brazil *Learning Nonlinear Dynamics With Echo State Networks*

E) Invited talks

- **Karolinska Institutet @ DDLS fellow public research seminars** *February 2024* - Data-driven ECG analysis
- **Royal Institute of Technology, KTH, Sweden @ Division of Robotics, Perception and Learning** *November 2023* - Linear adversarial training, robustness in machine learning and applications to cardiology
- **Laboratório Nacional de Computação Científica @ Petrópolis, RJ, Brazil (online)** *October, 2023* - Ataques adversáriais em modelos lineares
- **Imperial College, UK @ Imperial Centre for Translational and Experimental Medicine** *July, 2023* - Robustness in large-scale machine learning and its relevance to AI-enabled ECG
- **IEEE EMBS @ Germany Chapter, Göttingen (online)** *May, 2023* - The Three Challenges of Using Deep Neural Networks in Electrocardiography
- **PUC Rio, Brazil @ Department of Mechanical Engineering** *May, 2023* - Revisitando o princípio da parcimônia na identificação de sistemas e aprendizado de máquina
- **INRIA Paris, France @ SIERRA team** *March, 2023* - Overparametrized linear regression under adversarial attacks
- **Seminars on Advances in Probabilistic Machine Learning @ Aalto University and ELLIS unit Helsinki** *November 2022* - Adversarial Attacks in Linear Regression
- **University of British Columbia, Canada @ Christos Thrampoulidis group (Online)** *June 2022* - Overparameterized Linear Regression under Adversarial Attacks
- **University of Luxembourg @ Systems Control Group, LCSB (Online)** *March 2022* - Deep Neural Networks for Automatic ECG Analysis
- **International Congress on Electrocardiology (Online)** *April 2021* - Artificial intelligence for ECG classifcation and prediction of the risk of death
- **Techinion, Israel @ AIMLab group (Online)** *March 2021* - Artificial intelligence for ECG classification and prediction of the risk of death

10. Additional work experience

A) Open source development

- **SciPy team member** *- 2017 - 2021*

B) Others

- **Software Developer** *May. 2017 - Aug. 2017* - Google Summer of Code
- **Hardware Team Intern** *Jan. 2015 - Dec. 2015* - Invent Vision
- **Undergraduate Researcher** *Jun. 2013 - Jan. 2015* - Research and development project with Petrobras Oil Company, UFMG