# Pedro Gonçalves Lind


Birth: Lisbon, Portugal, March 23rd 1976
Citizenship: German and Portuguese
Marital Status: Married, two sons (2001, 2015)
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| Functions | Director of *NordSTAR* – Center of Research Excellence of OsloMet, Norway. |
| | Advisory board member of the AI Lab, OsloMet, Norway. |
| | Committee member of the Nordic Quantum Life Sciences Round Table. |
| | Editorial board member for *Energies* and *Computation*, Associate Editor for *Intelligent Data Analysis* and guest editor for *Frontiers*. |
| | Member of *IEEE Computational Intelligence Society* (USA), *Deutsche Physikalische Gesellschaft* (Germany) and Society of Portuguese Authors (Portugal) |
| | Collaborator of the *Centre for Philosophical and Humanistic Studies*, Portugal. |
| Researcher ID | **G-5124-2010** ORCID ID **0000-0002-8176-666X** |

## Professional Experience

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| 2024-2025 | Adjunct Chief Research Scientist, Simula Research Laboratory, Norway. |
| 2022-2024 | Invited teacher, Kristiania University of Applied Sciences, Norway. |
| 2021-2024 | Director of *NordSTAR* – Center of Research Excellence of OsloMet, Norway. |
| Since 2019 | Professor (*Full Professor*), Oslo Metropolitan University, Norway. |
| 2018-2019 | Docent (*Privatdozent*), University of Osnabrück, Germany. |
| 2016-2018 | Researcher (*Wissenschaftlicher Mitarbeiter*), University of Osnabrück, Germany. |
| 2013-2016 | Researcher (*Wissenschaftlicher Mitarbeiter*), University of Oldenburg, Germany. |
| 2008-2013 | Docent (*Doutor Ciência*), University of Lisbon, Portugal. |
| 2007-2008 | Principal Investigator (DFG funding, Germany), University of Stuttgart, Germany. |
| 2006-2007 | Researcher (*Wissenschaftlischer Mitarbeiter*), University of Stuttgart, Germany. |
| 2004-2005 | Researcher (FCT funding, Portugal), University of Stuttgart, Germany. |

## Education

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| 2018 | Habilitation in Theoretical Physics, "Stochastic modelling in physics and interdisciplinary applications", University of Osnabrück, Germany (grade n.a.). |
| 2003 | PhD in Mathematical Physics, "Pattern Formation in Diffusive-Advective Networks of Discrete-Time Oscillators" (*Summa cum Laude*), University of Lisbon, Portugal. |
| 2000 | Complementary Graduation in Music (Violin), Music School of the National Conservatorium, Lisbon, Portugal. Final grade: 14 (max. 20; equiv. to B). |
| 1999 | Graduation in Physics, University of Lisbon, Portugal. Final grade: 18 (max. 20; equiv. to A). |

## Research Expertise

- AI models and algorithms in energy, finance, biology and society.
- Machine learning and data analysis.
- Statistics and stochastic modeling.
- Complex and nonlinear systems.
- Optimization methods and stability analysis.

## Language skills

- Written: Portuguese (+), English (+), German (±), Spanish (±), Bokmål (−), French (−).
- Spoken: Portuguese (+), English (+), German (+), Spanish (±), Bokmål (−), French (−).

## Scientific Projects and Funding

Projects as Coordinator: #8
Projects as Member or Collaborator: #27
Projects as Manager: #1
Awards and Nominations: #4

## Publications

Refereed articles: #91
Chapters of books/ Proceedings: #32
Books and special issues: #6
Software development publications: #1
Long abstract, published abstracts and other publications: #26
Outreach articles about science: #22
Non-scientific refereed articles: #1
Non-scientific books: #1
**Total: # 180**

WOS: 1470 Citations; H-index=20; i10-index=41
Google Scholars: 2611 Citations; H-index=26; i10-index=52
[**All publications and additional informations can be provided under request**]

## Supervision Activities

Postdoc supervisions: #8
PhD supervisions: #16
Master supervisions: #47
Research assistants, undergraduation and internship supervisions: #31
High school students: #1

## Teaching Activities

Lectures: #24
Tutorials: #13
Short courses: #9

## Communications & Meetings

Invited talks at international conferences: #18
Oral talks at international conferences: #30
Posters at international conferences: #14
Presentations in conferences by co-author: #98
Participation in academic committees: #45
Seminars at research institutes and universities: #64
Research meetings with the industry and business partners: #14
Outreach seminars for non-scientific audiences and the general public: #23
**Total: # 306**

**[Further information about communications and meetings can be provided by the author]**

## Selected peer-reviewed papers

- Physical Review X 8, 021015 (2018), "Aerodynamics and percolation: unfolding the laminar separation bubble on airfoils", D.Traphan, T.Wester, Gerd Gülker, J.Peinke, P.G.Lind.
- Europhysics Letters 120, 30008 (2017), **Editor's choice**, "Rogue waves and entropy consuming trajectories", A.Hadjihossein, P.G.Lind and J.Peinke.
- Journal of Open Research Software 4(1) p.e34 (2016), "The Langevin Approach: An *R* Package for Modeling Markov Processes", P.Rinn, P.G.Lind, M.Wächter, J.Peinke; routine available at `https://cran.r-project.org/web/packages/Langevin/`.
- Atmospheric Environment **79** 822-830 (2013), "Air quality prediction using optimal neural networks with stochastic variables", A.Russo, F.Raischel, P.G.Lind.
- European Physical Journal B **85** 256 (2012), **Editor's choice**, "The dynamics of financial stability in complex networks", J.da Cruz, P.G.Lind.
- Physical Review Letters **97** 090603 (2006), "Reconstruction of complex dynamical systems affected by strong measurement noise", F.Boettcher, J.Peinke, D.Kleinhans, R.Friedrich, P.G.Lind, M.Haase.

## Awards & grants

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| Horizon2020 | 2021-2026 | Participant, *AI Mind: Intelligent digital tools for screening of brain connectivity and dementia risk estimation in people affected by mild cognitive impairment* ($\sim$ 14.000.000 EUR). |
| DFG, Germany | 2016-2018 | Coordinator, *From noisy data to physical knowledge: applications to wind energy and nanosystems*, Univs. Osnabrück and Oldenburg ($\sim$30.000 Euro). |
| DAAD,Germany | 2014-2017 | Management board member, *IPID4all - Mobile Doctorates in System Integration of Renewable Energy* ($\sim$500.000 Euro). |