

# Buelent Uendes

buelent.uendes93@gmail.com • +49 152 21457090 • Website • Github

- PROFILE** ML researcher working on explainability and self-supervised learning for time series data. Driven by a desire to bridge the gap between AI research and practice, with a particular interest in healthcare and education.
- EDUCATION**
- Vrije Universiteit Amsterdam**, Amsterdam, the Netherlands
- Ph.D. in Computer Science Apr 2023 – present
    - Ph.D. project as part of the Stress-in-Action project funded by the Dutch research council
    - Focus: Time-series data, Trustworthy AI, Mental stress detection
    - Adviser: Prof. Mark Hoogendoorn, Prof. Bernard P. Veldkamp, Dr. Shujian Yu
- Barcelona School of Economics**, Barcelona, Spain
- M.Sc. in Data Science Sep 2020 – Jun 2021
    - Relevant Course Work: Machine Learning, Deep Learning, Reinforcement Learning
    - Cumulative GPA: 8.4/10. (Excellent)
- Lund University**, Lund, Sweden
- M.Sc. in Economics Aug 2018 – Aug 2020
    - Specialization: Econometrics and Statistics
    - Cumulative GPA: A (Top 5% of the cohort)
- University of Hohenheim**, Stuttgart, Germany
- B.Sc. in Business Administration and Economics Oct 2013 – Jul 2017
    - Cumulative GPA: 1.2 (Top 1% of the cohort)
- WORK EXPERIENCE**
- Junior AI Lecturer**, Vrije Universiteit Amsterdam, Amsterdam, the Netherlands Sep 2021 – Apr 2023
- Developed and taught bachelor and master courses in Artificial Intelligence.
  - Served as a workshop leader on 'Deep Reinforcement Learning' at the Reinforcement Summer School 2022 hosted by Vrije Universiteit Amsterdam.
- PUBLICATIONS**
- CONFERENCE PUBLICATIONS**
- [1] [Buelent Uendes](#), Shujian Yu, and Mark Hoogendoorn, “Start Smart: Leveraging Gradients For Enhancing Mask-based XAI Methods”, in *The Thirteenth International Conference on Learning Representations (ICLR)*, Apr 2025.
- JOURNALS**
- [1] [Buelent Uendes](#), Alex Antonides, Sjors van de Ven, Denise Johanna van der Mee, Eco de Geus, and A.Mark Hoogendoorn, “Electrocardiogram-Based Mental Stress Detection Amid Everyday Activities Using Machine Learning: Model Development and Validation Study”, *Journal of Medical Internet Research*, Mar 2026.
- [2] [Buelent Uendes](#) Carlos Laborda, and Mark Hoogendoorn, “Beyond Supervision: Evaluating contrastive self-supervised learning techniques for ECG-based mental stress detection”, *Under review: Biomedical Signal Processing and Control*.
- AWARDS & SCHOLARSHIPS**
- Scholarship holder of the German National Academic Foundation 2013 – 2021
  - Study Abroad Scholarship by the German Academic Exchange Service (DAAD) 2019 – 2020
  - Dean’s List, Fall 2013 through Spring 2017, University of Hohenheim 2013 – 2017
- SKILLS**
- **ML**: Time series analysis, explainability (XAI), self-supervised learning, physiological signal processing
  - **Programming**: Python (PyTorch, scikit-learn, NumPy)
  - **Tools**: Git, GitHub Actions, Bash, Slurm, Docker
  - **Languages**: German (native), English (C2), Dutch (B2), French (A2)
- INTERESTS** Beach volleyball, Table tennis, Guitar, Traveling.