Selpi's CV

Full Name	Selpi
Address	Rännvägen 6, SE-41296 Gothenburg, Sweden
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Links	ORCID, Google Scholar, LinkedIn

Current Employment

2024 – now **Senior Researcher (Data Science and AI)**
Chalmers University of Technology, Computer Sci. & Eng., Sweden
Lead and conduct research in machine learning (ML) and AI.
Teach courses & supervise students in area Applied ML/AI, Data Science.
Head of Unit for Data Science and AI (2025–now, manager for 30 employees consisting of faculty members, PhD students, and postdocs; 2024, manager of 45-50 PhD students, postdocs, and temporary employees.)

Recent Degrees

2024 **Docent in Computer Science**
Chalmers University of Technology, Computer Sci. & Eng., Sweden

2004 – 2008 **PhD in Computing**
The Robert Gordon University (RGU), United Kingdom
Thesis: An Inductive Logic Programming Approach to Learning which uORFs Regulate Gene Expression
Area: Machine learning, bioinformatics
Supervisors: Dr. Christopher H. Bryant and Prof. John McCall

Recent Grants

2025-2026 **YOLO1 algorithm for shipping waste discharges detection at Swedish waters based on fused satellite images with ship AIS data**
Funder: Chalmers Area of Advance Transport; Role: Co-applicant;
Total budget: 1 565 000 SEK

2024-2025 **An interpretable, self-explaining method for traffic safety applications**
Funder: Chalmers Area of Advance Transport; Role: Co-applicant;
Total budget: 2 000 000 SEK

2023-2027 **Deep MultiModal Learning for Automotive Applications**
Funder: Sweden Innovation Agency Vinnova
Role: Chalmers-CSE-applicant, supervisor for one PhD student
Total budget: 24.5 mSEK, Chalmers: 5 344 773 SEK

2021 – 2024 **PANACEA (PracticAl and Effective tools to moNitor and Assess CommErciAl drivers' fitness to drive)**
Funder: EU H2020; Role: Chalmers-applicant, WP leader
Total budget: EUR 3.498 million; Chalmers: EUR 246 298

Supervision Experience

Postdoc

2019 – 2021	Eleonora Andreotti, Postdoc researcher, Topic: Impact of vehicle automation in mixed traffic, my role: **Supervisor**

PhD students

2024 (Oct) - now	Mengyu Huang, PhD student, my role: **Supervisor**
2023 (Sept) - now	Amer Mustajbasic, Industrial PhD student employed at Zenseact, my role: **Supervisor**
2018	Teemu Itkonen, Visiting student at Chalmers from Aalto University, Finland; stayed for 4 months, my role: **Supervisor**
2017 – 2018	Tong Liu, Visiting student at Chalmers from Chang'an University, China; stayed for 6 months, my role: **Supervisor**
2009 – 2014	Henrik Lind, Part-time Industrial PhD Student at Chalmers, my role: **Co-supervisor**

Master's and bachelor students

Supervisor for 41 master's students (for theses), 8 master's students (for non-thesis projects), and 12 bachelor students (for theses) during period 2012-2025. **Co-supervisor** for one master's student (for thesis) in 2011. **Examiner** for 13 master's projects.

Recent Teaching Experience (from 2020)

Chalmers University of Technology and University of Gothenburg, Computer Science and Engineering

2024	**Reading course on Multimodal Learning** Examiner	PhD course
2021 – 2024	**Python for data scientists** Number of participants: ≈ 40-45/class Examiner (2022-) and course responsible (2021-)	MSc course
2019 – now	**Applied Machine Learning** Number of participants: ≈ 90-160/class Examiner and course responsible (2022-), Led the discussion sessions in flipped classroom setting (2021), Main lecturer (2020), Guest lecturer (2019)	MSc course
2020 – 2021	**Introduction to Data Science and AI** Number of participants: ≈ 150/class Lecturer (2021), Course responsible (2020)	BSc/MSc course

Pedagogical Training

2025 **Diversity and inclusion in learning in higher education**
Chalmers University of Technology, Sweden

2023 **Supervision forum for research education for CSE**
Chalmers University of Technology, Sweden

2016 **Diploma of Higher Education (pedagogic)**
Chalmers University of Technology, Sweden

Before 2020 **Other training**
Coaching: An approach to supervision of doctoral students (Chalmers University of Technology, Sweden), Handledareforum II (PhD Supervisors forum at Chalmers), Introducing Teaching and Demonstrating (The Robert Gordon University, UK)

Function and Commissions of Trust

Leadership tasks

2024 – now **Head of Unit Data Science and AI**
Chalmers University of Technology, Sweden
2025: Manager for 30 employees (a mix of faculty members, PhD students, postdocs)
2024: Manager for 45-50 employees (a mix of PhD students, postdocs, and short-term employees)

2015 – 2020 **Director of Graduate/Doctoral Studies**
Chalmers University of Technology, Sweden
Led Graduate School Machine and Vehicle Systems
Offered sound advice & feedback to ≈35 PhD students/year and their supervisors and examiners.
Evaluation result: very well functioning research school.

Academic tasks within the home university

Up to 2020 **Tasks at Chalmers**
Assessor for evaluation of research schools (2018), Member of Reference Group and Internal Reviewer for preparation for National Evaluation of Research Education ”UKÄ utvardering” (2016-2017), Member of CUF committee (”Coachning och utvärdering av forskarassistenter” or coaching and evaluation of assistant professors) (2016-2017), Director of Graduate/Doctoral Studies (2015-2020)

Academic tasks outside the home university

2025 – now **Faculty opponent at PhD defences**
Manoranjan Kumar, Linnaeus University, Apr 2026
Koen Vellenga, University of Skövde, Nov 2025

2025 – now **Grading committee member at PhD defences**
Abhijeet Behera, Linköping University, Dec 2025
Ivan Postigo, Linköping University, Mar 2025
Amr Alkhatib, KTH Royal Institute of Technology, Feb 2025

2025 **Deputy Grading committee member at PhD defences**
Donglin Liu, Lund University, Oct 2025

2022 **Discussion leader (”diskutant”) at Licentiate (pre-doctoral) seminar**
Ivan Postigo, Linköping University, Sept 2022

2021 – now **Evaluator for EU Horizon Europe Programmes**
2026, 2025, 2022, 2021, 2021

2016 – now **Associate Editor**
IEEE Trans. on Intelligent Transportation Systems T-ITS (2021 – 2024; T-ITS is a flagship, top-ranked journal in the field of ITS),
IEEE Intelligent Vehicle Symposium (2016–2021, 2025)

2015 – now **Reviewer for Journals**
including IEEE T-ITS, IEEE T-VT, IEEE OJ-ITS, AAP, Human Factors
Received certificate of *Outstanding Contribution in Reviewing* from Elsevier in 2017

2015 – now **Reviewer for Conferences**
NeurIPS (2026), KDD (2026), ECML/PKDD (2026), IEEE CDC (2019), IEEE IV (2016, 2017, 2018, 2019, 2020, 2021, 2025), IEEE ITSC (2018, 2019, 2021), ICSIIT (2015, 2017), HFES’s Int. Annual Meeting (2015, 2016), FASTzero (2015)

2015 – now **Member of Scientific/Technical Committees**
IEEE ITS Naturalistic Driving Data Analytic (2015 – now), FAST-zero (2015), ICSIIT (2015, 2017)

Conferences/Workshops/Seminars Organisation

2023 – 2024 **Co-organiser, Interpretable AI Theme**
Part of Chalmers AI Research Centre (CHAIR) themes.

2021 – 2022 **Lead organiser, Spotlight on Research seminar series**
Part of Chalmers AI Research Centre (CHAIR) seminar series.

Before 2020 **Workshop organiser and session co-chair**
Lead organiser, 3^{rd} Workshop on Naturalistic Driving Data Analytic, as part of IEEE Intelligent Vehicles Symposium (IV’16), session co-chair at IEEE IV 2016 and FASTzero 2015

Recent Invited Talks Outside Own Group

2023 **IEEE ITSC 2023, Bilbao, Spain**
Invited keynote and panel member at the panel discussion at Workshop "Data-driven and empirical research for emerging mixed traffic".

2022, 2023 **Department of Industrial and Materials Science, Chalmers**
Invited lecture in MSc course on *Data science in product realization*
My lecture title: *Examples of ML methods*

2021 **Malmö University, Sweden**
Invited lecture in PhD course on *Current Topics in Data Science*
My lecture title: *Challenges and opportunities with time series analysis*

Other Service/Volunteering/Outreach

2024 **Digital jury for the Young Researchers Exhibition in Sweden.**
Link to "Utställningen Unga Forskare"

2023 **Workshop co-organiser at Vetenskapsfestivalen in Sweden.**
Theme: "Explore data on the Web in a new way" using SPARQL.
Vetenskapsfestivalen is an annual science festival in Gothenburg.

Before 2020 **Other services**
Initiated and coached two teams competing in Knowledge Discovery & Data Mining (KDD) Cup 2017. Volunteered as Science Demonstrator at TechFest in Scotland, UK

Other Relevant Courses/Training

2024–2025 **Courses for manager**
Chalmers University of Technology, Sweden
New as manager, **Work environment education - Part 1**, **Work environment education - Part 2**, **Education about leadership**, **Performance appraisal - appraisal talks**, **Salary criterias and salary revision**, **Online: About the Discrimination Act**

Before 2020 **Leadership, management, and sustainability trainings**
Effective Personal Leadership by Leadership Management International, Project management course based on the Value Model by Per Lindstedt, Youth Encounter Sustainability by ETHsustainability Switzerland