



David Salinas Professional Summary

- Senior Research Scientist specializing in Large Language Models with extensive experience in evaluation pipelines, multilingual model training, and collaborative AI research.
- Heading evaluation efforts of a €37M EU consortium developing multi-lingual and open LLMs.
- Strong publishing track record with 6,800+ citations and h-index of 26.
- Experienced in deploying scalable ML systems at AWS and developing open-source frameworks.

—— Professional Experience

2025-Present Group Leader OpenEuroLLM at ELLIS Institute, Tübingen, Germany

- Leadership & Strategy:
 - Lead evaluation Work Package for the consortium (one of the three technical core Work Packages)
 - Contribute to pre-training and post-training pipeline architecture and design
 - Authored internal technical roadmap and technical onboarding document
 - Established GitHub repository and task board for consortium-wide project tracking and collaboration
 - Managed hiring process for 8 positions: wrote job post, organized interviews, and handled negotiations
- Technical Contributions:
 - Tuned open-weights LLM judges to match proprietary model performance
 - Evaluated 20,000+ model/task combinations for Open-sci-ref-0.01 release of 1.7B parameter models
 - Built benchmarking infrastructure for systematic model comparison and reproducible analysis
 - Created multilingual pre-training datasets by machine-translating high-quality English data

2024-Present Senior Research Scientist at University of Freiburg, Freiburg, Germany

- O Research focus: model evaluation, AutoML for LLMs, and foundational model architectures.
- My team achieved 2nd place in the Kaggle AutoML Grand Prix competition and won a \$20,000 prize.
- O I co-developed TabPFN-TS which led the GiftEval forecasting leaderboard for three months.

2024-Present Scientific Advisor at Distill Labs, Berlin, Germany

O Advise Berlin-based AI startup on LLM research, evaluation, and product development.

2020–2024 Senior Applied Scientist at Amazon, Grenoble, France

- Lead developer of Syne Tune, an open-source Hyperparameter Optimization library that is now used in two AWS services.
- O Developed a transfer-learning method to learn default configurations of AutoGluon Tabular that achieved a win rate of 54% against the best tabular methods while decreasing latency by 20%.

2019–2020 Senior Machine Learning Scientist at NAVERLABS Europe, Grenoble, France

Proposed an inductive bias improving compositionality and sample efficiency of question-answering.

2015–2019 Senior Applied Scientist at Amazon, Berlin, Germany

- Proposed and implemented **DeepAR**, a neural forecasting model which had a significant impact on the field (cited 2,900+ times) and that got released as an AWS service.
- Developed production forecasting system for labor planning surpassing human expert accuracy, deployed across all Amazon warehouses globally.

2013–2015 Post Doc at Inria, Sophia Antipolis, France.

Education

2010–2013 PhD in Computer Science at Grenoble Alpes University, Grenoble, France.

2007–2010 BSc and MSc at Ecole Normale Supérieure de Lyon, Lyon, France.

Main Current Research Interests

Large Language Models. ICML 2025, Arxiv2025a, Arxiv2025b.

AutoML. ICML 2020, 2023 & 2025, NeurIPS 2025a & 2025b (Spotlight), AutoML Conf 2022 & 2024.

Time-series. NeurIPS 2016 (Oral) & 2019, AISTATS 2019, IJF 2020, JMLR 2020, NeurIPS 2025w.

Selected High-Impact Publications.

- O DeepAR (IJF2020) forecasting model widely adopted in academia and industry cited cited 2,900+ times.
- Syne Tune (AutoML 2022) HPO framework integrated into two AWS production services.
- TabRepo & TabArena (AutoML 2024 & NeurIPS 2025 Spotlight): strong performance gain to AutoGluon the current best tabular prediction method.

Scientific Publication and Citation Records

Citations. 6809 citations, h-index: 26, i10-index: 32 (Google Scholar Oct 2025).

Tutorials & Research Schools. AutoML Conf 2023, MESS Summer School 2024, AutoML School 2025, Oxford Machine Learning Summer School 2025.

Reviewing. AutoML-Conf (area-chair). NeurIPS, ICML and ICLR (reviewer).

Open-source

I am a core developer of Syne Tune (Hyperparameter Optimization), SlurmPilot (Python wrapper for Slurm experiments) and was a core-developer of Gluon-ts (forecasting) and Datawig (data imputation).

Selected Publications

- H. Nguyen, V. May, H. Raj, M. Nezhurina, Y. Wang, Y. Luo, M. Vu, T. Nakamura, K. Tsui, V. Nguyen, **D. Salinas**, M. Richter, X. Son, and J. Jitsev. Mixturevitae: Open web-scale pretraining dataset with high quality instruction and reasoning data built from permissive-first text sources. **Arxiv 2025**.
- M. Nezhurina, J. Franke, T. Nakamura, T. Carstensen, N. Ajroldi, V. Komulainen, **D. Salinas**, and J. Jitsev. Open-sci-ref-0.01: open and reproducible reference baselines for language model and dataset comparison. **Arxiv** 2025.
- M. Arbel, **D. Salinas**, and F. Hutter. Equitabpfn: A target-permutation equivariant prior fitted networks. **NeurIPS 2025**.
- N. Erickson, L. Purucker, A. Tschalzev, D. Holzmüller, P. Mutalik Desai, **D. Salinas**, and F. Hutter. Tabarena: A living benchmark for machine learning on tabular data. **NeurIPS 2025 D. & B. Track 2025 (Spotlight)**.
- **D. Salinas**, O. Swelam, and F. Hutter. Tuning LLM judge design decisions for 1/1000 of the cost. **ICML 2025**.
- S. Hoo, S. Müller, **D. Salinas**, and Frank Hutter. The tabular foundation model tabPFN outperforms specialized time series forecasting models based on simple features. **NeurIPS Workshop 2024**, 2024.

David Salinas and Nick Erickson. Tabrepo: A large scale repository of tabular model evaluations and its automl applications. **AutoML-Conf 2024**.

- **D. Salinas**, J. Golebiowski, A. Klein, M. Seeger, and C. Archambeau. Optimizing hyperparameters with conformal quantile regression. **ICML 2023**.
- **D.** Salinas, M. Seeger, A. Klein, V. Perrone, M. Wistuba, and C. Archambeau. Syne tune: A library for large scale hyperparameter tuning and reproducible research. **AutoML-Conf 2022**.
- **D.** Salinas, H. Shen, and V. Perrone. A quantile-based approach for hyperparameter transfer learning. **ICML 2020**.
- A. Alexandrov, K. Benidis, M. Bohlke-Schneider, V. Flunkert, J. Gasthaus, T. Januschowski, D. Maddix, S. Rangapuram, **D. Salinas**, J. Schulz, L. Stella, A. Türkmen, and Y. Wang. Gluonts: Probabilistic and neural time series modeling in python. **JMLR 2020**.
- **D. Salinas**, M. Bohlke-Schneider, L. Callot, R. Medico, and J. Gasthaus. High-dimensional multivariate forecasting with low-rank gaussian copula processes. **NeurIPS 2019**.
- J. Gasthaus, K. Benidis, Y. Wang, S. Rangapuram, **D. Salinas**, V. Flunkert, and T. Januschowski. Probabilistic forecasting with spline quantile function rnns. **AISTATS 2019**.
- F. Biessmann, T. Rukat, P. Schmidt, P. Naidu, S. Schelter, A. Taptunov, D. Lange, and **D. Salinas**. Datawig: Missing value imputation for tables. **JMLR 2019**.
- **D.** Salinas, V. Flunkert, J. Gasthaus, and T. Januschowski. Deepar: Probabilistic forecasting with autoregressive recurrent networks. **IJF 2020**.
- T. Januschowski, J. Gasthaus, Y. Wang, **D. Salinas**, V. Flunkert, M. Bohlke-Schneider, and L. Callot. Criteria for classifying forecasting methods. **IJF 2020**.
- M. Seeger, **D. Salinas**, and V. Flunkert. Bayesian intermittent demand forecasting for large inventories. **NeurIPS 2016 (oral)**.