Tristan Cınquın

PERSONAL INFORMATION

Address	Kornhausstrasse	12	Tühingen	Cermany
MUUKESS	NUTHHAUSSHASSE	12.	Tubiligeli.	Germany

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EDUCATION

10/22 -	University of Tübingen - International Max Planck Research School for Intelligent Systems, Germany.
	PHD IN PROBABILISTIC MACHINE LEARNING SUPERVISED BY PROF. ROBERT BAMLER AND PROF. VINCENT FORTUIN.
09/19 - 06/22	Swiss Federal Institute of Technology Zürich (ETHZ), Switzerland, MASTER IN COMPUTER SCIENCE.
08/18 - 06/19	University of Illinois at Urbana-Champaign (UIUC), USA, EXCHANGE YEAR IN COMPUTER SCIENCE.
09/15 - 06/19	Swiss Federal Institute of Technology Lausanne (EPFL), Switzerland
, ,	BACHFLOR IN COMMUNICATION SYSTEMS (2016 - 2019) & MICRO-FNGINFFRING (2015)

WORK EXPERIENCE

10/21 - 05/22	Amazon	Applied	SCIENTIST	INTERN	Rerlin	Germany
10/21 - 0)/22	AIIIazuii,	APPLIED	SCIENTIST	IIN I EKIN,	, Delliii,	Germany

• Investigated Bayesian inference methods in gradient boosting machines to obtain well calibrated predictive uncertainty on tabular data for applications to contextual multi-armed bandits.

03/21 - 06/21 | ETHZ, TEACHER ASSISTANT IN MACHINE PERCEPTION, Zurich, Switzerland

• Prepared deep learning programming tutorials for exercise sessions.

06/19 - 08/19 Natixis, QUANTITATIVE ANALYST INTERN, Paris, France

- Introduced to financial markets and the process of pricing equity derivatives.
- Research to write the SR07-11 report to document the Pricer of a financial product.
- Introduction to machine learning for financial markets.

09/16 - 07/18 | EPFL Junior Enterprise, PROJECT MANAGER, Lausanne, Switezland

- Project Management: met clients, identified their needs, established offers and contracts, monitored projects, payment.
- Translation Services: prospected clients, constant search to improve service and efficiency.
- Trained on negotiation skills, prospecting and selling services.

09/17 - 07/18 | EPFL, TEACHER ASSISTANT IN MATHEMATICS & DIGITAL SYSTEM DESIGN, Lausanne, Switzerland

• Provided tutoring to help students understand lectures, complete exercises and lab work. Assisted professors in grading.

PROJECTS

03/21 - 10/21 The Bayesian Transformer, Master Thesis

Applied approximate Bayesian inference methods on the transformer to obtain well calibrated predictive uncertainty.

03/20 - 07/20 | Human Motion Prediction with Synthetic Self-Attention

Developed a Transformer model to predict the next frames of a skeleton given a sequence of past frames.

03/20 - 07/20 | Road segmentation with Meta-Learning

Used the MAML meta-learning framework to learn to segment roads from aerial images scrapped from Google Maps.

PUBLICATIONS

NeurIPS 2024 FSP-Laplace: Function-Space Priors for the Laplace Approximation in Bayesian Deep Learning, Tristan

Cinquin, Marvin Pförtner, Vincent Fortuin, Philipp Hennig, Robert Bamler.

Pre-print Regularized KL-Divergence for Well-Defined Function-Space Variational Inference in Bayesian neural net-

works, Tristan Cinquin, Robert Bamler.

AISTATS 2023 Variational boosted trees, Tristan Cinquin, Philipp Schmidt, Tammo Rukat, Martin Wistuba, Artur Bekasov.

Proceedings of the 26th International Conference on Artificial Intelligence and Statistics 2023, Valencia, Spain.

NeurIPS 2021 | Pathologies in priors and inference for Bayesian transformers, Tristan Cinquin, Alexander Immer, Max

Horn, Vincent Fortuin.

Bayesian Deep Learning Workshop, 35th Conference on Neural Information Processing Systems, December 2021.

ICASSP 2021 Unsupervised Musical Timbre Transfer for Notification Sounds, Jing Yang, Tristan Cinquin, Gábor Sörös.

Proceedings of the 46th International Conference on Acoustics, Speech and Signal Processing. IEEE, Toronto, Canada, June

SKILLS

PROGRAMMING Proficient in Python, advanced in C, Java, Scala & SQL, good in C++/C#.

Strong knowledge of PyTorch, TensorFlow, JAX, Numpy, Scipy, Pandas & Scikit Learn Python Libraries.

LANGUAGES Bilingual in French and English, German level A2, French and Canadian nationality.

AREAS OF INTEREST

PASSIONS Probabilisitc machine learning, deep reinforcement learning and programming.
HACKATHONS Harvard MakeHarvard 2019, ETH ACE Datathon 2019, Imperial college Algothon 2021.

SPORTS Tennis, cycling, running, squash.

VOLUNTEERING Association Massabielle (05/2022-06/2022).