

PAUL JEHA

MEINUNGSGADE 12 2TH, COPENHAGEN, DENMARK | +45 30 45 31 48 |
pauje@dtu.dk | linkedin.com/in/pauljeha | Dual Nationality: French – Canadian |

EDUCATION

DTU – Technical University of Denmark

PhD – Itô's formula as a learnable bridge between two Stochastic Differential Equations.

Sep '22 to Sep '25
Copenhagen, Denmark

Ecole Polytechnique Fédérale de Lausanne, EPFL

Double Degree: MSc Management, Technology and Entrepreneurship, Minor in Data Science

Sep '18 to Oct '20
Lausanne, Switzerland

- *Relevant coursework:* Machine Learning, Optimization for Machine Learning, Deep Learning, Advanced Convex Optimization, Statistics for Data Science.

CentraleSupélec

MSc in Electrical Engineering

Sep '16 to Oct '20
Paris, France

- *Relevant coursework:* Probability & Statistics, Signal Analysis, Big Data, Software Engineering, Algorithms and Data Structures.

Chaptal Preparatory classes

Sep '13 to Jul '16
Paris, France

- *Relevant coursework:* Mathematics, Physics, Engineering Science. “French Grandes Ecoles”.

WORK EXPERIENCE

DTU – Technical University of Denmark

Research assistant

Jan '22 to Aug '22
Copenhagen,
Denmark

- Research in diffusion models and Stochastic Differential Equations

Amazon Web Services

Applied Scientist Intern

Nov '20 to Nov '21
Berlin, Germany

- One-year long research position in generative models and time series.

Siemens Healthineers

Research Intern

March '20 to Sep '20
Princeton, US

- Master Thesis awarded with the highest grade: Research in Super Resolution of X-Ray images using Generative Adversarial Networks.

ZAION.ai

Data Scientist Intern

Jun '18 to Aug '18
Paris, France

- Research and implementation an algorithm that segments an audio signal into spoken and non-spoken segments using k-Nearest Neighbours.

PUBLICATIONS

Debiasing Guidance for Discrete Diffusion with Sequential Monte Carlo

Cheuk Kit Lee*, Paul Jeha*, Jes Frellsen, Pietro Lio, Michael Samuel Alberg, Francisco Vargas

- Under review

Generative Diffusion Models for Sequential Recommendations

Sharare Zolghadr, Ole Winther, Paul Jeha

- Published ROEGEN@RecSys'24

Variance reduction of diffusion model's gradients with Taylor approximation-based control variate

Jeha Paul, Will Grathwohl, Michael Riis Andersen, Carl Henrik Ek, Jes Frellsen

- Published at ICML 2024 Workshop on Structured Probabilistic Inference & Generative Modeling

PSA-GAN: Progressive Self Attention GAN for Synthetic Time Series

Jeha Paul*, Bohlke-Schneider Michael*, Mercado Pedro, Singh Nirwan Rajbir, Kapoor Shubham, Flunkert Valentin, Gasthaus Jan, Januschowski Tim

- Published at Time Series workshop ICML 21 with a contributed talk. Top 4 papers.
- Published at ICLR 22 Conference

ENTREPREUNERSHIP

Junior Supelec Stratégie (now Junior CentraleSupelec)

Sep '16 to Jul '18
Paris, France

Project and Quality manager

- Negotiated and piloted web development projects for Syrian law professionals, in order to prepare post-conflict Syria.

SKILLS

- Technical skills: Python (PyTorch, Scikit Learn, Pandas, JAX etc.), AWS SageMaker, VM Google Cloud, InDesign
- Languages: Native French, fluent English, intermediate Arabic, basic Spanish
- Passions: Calisthenics, Fashion (designing and sewing clothes), Coffee (natural anaerobic process is my favourite), Food and Reading (currently Poor Things)