PAUL JEHA

MEINUNGSGADE 12 2TH, COPENHAGEN, DENMARK | +45 30 45 31 48 |

pauje@dtu.dk | linkedin.com/in/pauljeha | Dual Nationality: French – Canadian |

EDUCATION Sep '22 to Sep '25 DTU – Technical University of Denmark PhD – Îto's formula as a learnable bridge between two Stochastic Differential Equations. Copenhagen, Denmark Ecole Polytechnique Fédérale de Lausanne, EPFL Sep '18 to Oct '20 Double Degree: MSc Management, Technology and Entrepreneurship, Minor in Data Science Lausanne, Switzerland Relevant coursework: Machine Learning, Optimization for Machine Learning, Deep Learning, Advanced Convex Optimization, Statistics for Data Science. Sep '16 to Oct '20 CentraleSupélec Paris, France MSc in Electrical Engineering Relevant coursework: Probability & Statistics, Signal Analysis, Big Data, Software Engineering, Algorithms and Data Structures. Sep '13 to Jul '16 **Chaptal Preparatory classes** Paris, France Relevant coursework: Mathematics, Physics, Engineering Science. "French Grandes Ecoles". WORK EXPERIENCE DTU - Technical University of Denmark Jan '22 to Aug '22 Copenhagen, Research assistant Denmark Research in diffusion models and Stochastic Differential Equations Nov '20 to Nov' '21 **Amazon Web Services** Berlin, Germany Applied Scientist Intern One-year long research position in generative models and time series. **Siemens Healthineers** March '20 to Sep '20 Research Intern Princeton, US Master Thesis awarded with the highest grade: Research in Super Resolution of X-Ray images • using Generative Adversarial Networks. ZAION.ai Jun '18 to Aug '18 Data Scientist Intern Paris, France Research and implementation an algorithm that segments an audio signal into spoken and nonspoken segments using k-Nearest Neighbours. PUBLICATIONS

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

ACADEMIC PROJECTS

Master thesis: Single Image Super Resolution of X-Ray Images

• Developed a generative model to achieve super resolution of X-Ray images. Focused on (i) realistic images with complex patterns, (ii) similar to the ground truth image and (iii) perceptual quality.

Mar '19 to Jun '19 Lausanne, Switzerland

Junior Supelec Stratégie (now Junior CentraleSupelec)

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)

Sep '16 to Jul '18 Paris, France