

Xiaoyu Lin

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EDUCATION

Inria Grenoble-Rhône-Alpes, RobotLearn Team Ph.D. in Machine Learning, Supervisor: Xavier Alameda-Pineda, Laurent Girin Research topic: Deep Probabilistic Generative Model and the Applications to Audio-Visual Data	Grenoble, France 2020–Expected 2024
École Centrale de Pékin, Beihang University M.S. in System Engineering, GPA: 3.75/4.00 – Master Thesis: “Cloud Computing Center Workloads Simulation Based on Time Series Generation”	Beijing, China 2018–2020
École CentraleSupélec (Cursus Centrale) Engineer’s degree, GPA: 3.60/4.00	Paris, France 2016–2018
École Centrale de Pékin, Beihang University B.S. in Information and Computer Science, GPA: 3.90/4.00	Beijing, China 2013–2017

INDUSTRIAL EXPERIENCE

EM Data – Machine Learning Research Intern – Precipitation nowcasting radar map sequences prediction with deep generative models such as GAN.	Shanghai, China, Jul. 2020–Oct. 2020
Walnut Algorithm – Machine Learning Research Intern – Statistical studies of Limit Order Book data, building trading strategies with machine learning algorithms.	Paris, France, May 2019–Nov. 2019
Schlumberger – Artificial Intelligence Engineer Intern – Unsupervised drill bit speed data pattern recognition and prediction based on time series clustering.	Beijing, China, Jul. 2018–Oct. 2018
Schlumberger – Software Engineer Intern – Software algorithm analysis, fluid mechanic problem analysis using Bernoulli Equation.	Beijing, China, Jul. 2017–Sep. 2017

PUBLICATIONS

1. X. Lin, L. Girin, and X. Alameda-Pineda, “[Mixture of dynamical variational autoencoders for multi-source trajectory modeling and separation](#)”, in *Transactions on Machine Learning Research (TMLR)*, 2023.
2. X. Lin, X. Bie, S. Leglaive, L. Girin, and X. Alameda-Pineda, “[Speech modeling with a hierarchical transformer dynamical vae](#)”, in *2023 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, Rhodes, Greece, 2023, pp. 1–5.
3. X. Lin, S. Leglaive, L. Girin, and X. Alameda-Pineda, “[Unsupervised speech enhancement with deep dynamical generative speech and noise models](#)”, in *Interspeech*, Dublin, Ireland, 2023.
4. X. Lin, “[Unsupervised multi-object tracking via dynamical vae and variational inference](#)”, in *The Doctoral Symposium of the 30th ACM International Conference on Multimedia*, Lisboa, Portugal, 2022, pp. 6910–6914.

TEACHING

• Teaching Assistant at University Grenoble Alpes (30h) <i>Analyse élémentaire & Introduction au calcul scientifique (MAP101)</i>	Autumn 2021
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PROFESSIONAL SERVICE

Conference Reviewer: ACM MM (2021-2023), IEEE ICASSP 2024, IEEE ICRA 2024