Song Duong

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https://scholar.google.com/citations?user=xieCwE4AAAAJ

in https://www.linkedin.com/in/song-duong-b73923175/

https://www.github.com/sngdng/

https://sngdng.github.io/

RESEARCH	
July 2022 – Present	PhD Student (NLP)
	Criteo Al Lab, Paris & CNRS-ISIR, Sorbonne University, Paris
	Work under the supervision of Patrick Gallinari and Alberto Lumbreras.
	Publications:
	• S. Duong*, F. Le Bronnec*, A. Allauzen, V. Guigue, A. Lumbreras, L. Soulier, P. Gallinari. "SCOPE: A Self-supervised Framework for Improving Faithfulness in Conditional Text Generation". In 13th International Conference on Learning Representations (ICLR). 2025.
	 F. Le Bronnec*, S. Duong*, M. Ravaut, A. Allauzen, N. F. Chen, V. Guigue, A. Lumbreras, L. Soulier, P. Gallinari. "LOCOST: State-Space Models for Long Document Abstractive Summarization." In <i>Proceedings of the 18th Conference of the European Chapter of the Association for Computational Linguistics (EACL)</i>. 2024. (Best Paper Award)
	• S. Duong, A. Lumbreras, M. Gartrell, P. Gallinari. "Learning from Multiple Sources for Data-to-text and Text-to-data". In 26th International Conference on Artificial Intelligence and Statistics (AISTATS). 2023.
Jan 2022 – Jun 2022	Researcher (NLP)
	Criteo Al Lab, Paris
	 Study augmented latent variable models to handle multiple sources of structured data formats while learning in an unsupervised setting. Investigate the long-term potential of language models at Criteo.
May 2021 – Sep 2021	Research intern (RL)
	Facebook Al Research, Paris
	• Work under the supervision of <i>Ludovic Denoyer</i> to design a Continual Learning
	(CL) Benchmark to efficiently evaluate Continual RL agents.
	 Provide benchmarks for several CL baselines adapted for Deep RL.
	 Contribute to the SaLinA library for sequential decision models: L. Denoyer, A. de la Fuente, S. Duong, JB. Gaya, PA. Kamienny, D. H. Thompson. "SaLinA: Sequential Learning of Agents". 2021.
WORK EXPERIENCE	
Jan 2020 – July 2020	ML intern
-	Saildrone, Alameda
	 Design and train a series of computer vision models for ocean classification. Optimize the model for inference on low-power GPUs (Jetson Nano) using pruning & knowledge distillation techniques.

July 2019 – Dec 2019	IoT & ML intern
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Microsoft, Issy-les-Moulineaux

- Design lightweight neural networks for inferencing at the Edge through graph optimization and post-training quantization.
- Deploy classification and object detection models on Vision AI Dev Kit.
- Contribute to Azure Machine Learning and Azure IoT Edge documentations.

EDUCATION	
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LDUCATION	
2020 – 2021	 Master's degree in Machine Learning and Applied Mathematics École normale supérieure Paris-Saclay, Paris <i>Courses include</i>: Reinforcement Learning, Sequential Learning, Bayesian machine learning, Object Recognition and Computer Vision, Computational statistics, Convex optimization, Computational optimal transport.
2017 – 2021	 Master's degree in Applied Mathematics and Computer Science École des Ponts Paristech, Paris Courses include: Stochastic Process, Advanced Programming and Algorithms (C++), Software Design and Development (Python), Statistics and Data Analysis (R), Operational Research, Optimisation and Control, Machine Learning.
2015 - 2017	 Preparatory classes for the Grandes Écoles Lycée Louis-le-Grand (High School), Paris Two-year undergraduate intensive course in Mathematics and Physics to prepare for the Grandes Écoles (graduate engineering schools).
2012 - 2015	Baccalauréat with major in Maths Lycée Louis-le-Grand (High School), Paris • Obtained with first-class honours.
SKILLS	
Languages	English – Fluent; French – Fluent; Vietnamese – Native (mother tongue); Ger- man – Intermediate (B1 level); Chinese – Beginner
Programming skills	Proficiency in: Python, Pytorch; Familiar with: Tensorflow, C++.
MISCELLANEOUS	
Maths	 PROMYS (Program Mathematics for Young Scientists): 6-week summer math program at Boston University. Editions 2013 & 2014. TFJM² (Tournois Français des Jeunes Mathématiciennes et Mathématiciens): Editions 2013 (<i>honorable mentions</i>), 2014 (<i>2nd place</i>) & 2015 (<i>2nd place</i>). ITYM (International Tournament of Young Mathematicians): Edition 2015 (<i>2nd place</i>).
Coding Competitions	Facebook Paris Hackathon • Edition 2019. Kiro Hackathon (Operations Research) • Editions 2018 & 2019.
Hobbies	Chess Ukulele