Extracurricular Activity

• Computer Science: working on visualizations for open, public datasets mixing public policies and economics.

· Sports: boxing, tennis, and cross-country running.

• Music: Bob Dylan fan.

## MASTERS IN SCIENCE ENGINEERING

Lycée les Lazaristes, MP

· Major in Geostatistics and Probability.

## Sorbonne Universite, LPSM

MASTERS IN PROBABILITY

Two-year intensive program in both Maths and Physics.

**Mines Paristech** 

PREPARATORY CLASSES

Major in Stochastic Processes, Markov Chains, and Statistical Learning.

### PhD candidate in mathematics · Major in Statistics.

## Education Sorbonne Universite, LPSM

# • The main topic of the thesis was the study of theoretical and practical properties of Generative Adversarial Networks (GANs), an algorithm widely

**Criteo AI Lab** 

CIFAR PHD CANDIDATE

Summary.

**Criteo Al Lab** 

formers, generative networks theory, and 3D generation.

used in the Machine Learning community to generate images that are both realistic and diverse.

· Languages & packages: python, java, scala, pytorch, tensorflow, pyspark.

Tanielian

PHD IN STATISTICS & MACHINE LEARNING · DEEP LEARNING ENGINEER 🛛 (+33) 6 09 20 13 47 📔 🔤 ugo.tanielian@outlook.fr

Interests: computer vision, NLP, recommendation algorithms, deep learning theory and the robustness of machine learning models.

• Working on several Computer Vision related projects: multi-modal embeddings, visual search for marketing, image manipulation with Trans-

Worked on a proof of concept tool to create better products for existing users. The aim of the PoC is to predict simultaneously the description

- Supplementary applied research, closer to industrial applications dealt with:
  - the development of a new sampling algorithm suited for training neural nets with a large vocabulary (recommendation algorithms, NLP).
- the design of a robust Machine Learning network optimized for recommendation.

- · Achievements: published several papers in top international conferences and journals.

**Commerzbank AG** 

**Criteo Al Lab** 

Work Experience

MACHINE LEARNING RESEARCHER

INTERN, RESEARCH & DEVELOPMENT TEAM

of the target product and its visualization. In the project, both text2text modeling and a text2image generation are involved.

Worked on the development of privacy preserving Machine Learning algorithms suited for the online ad industry.

- April 2017 Sept. 2017
- Dealing with the topic of Cross-Device matching: creating a deep-learning based end-to-end solution to improve current models.

 Implemented a tool improving the calibration of financial models for specific products based on index rates. • Achievements: Development of a new automatized vanilla pricing platform and a stress risk visualization tool.

## · Achievements: top scoring algorithm in a ML competition and deployment of the solution in production.

TRADER & QUANT ASSISTANT: INDICES TEAM

## London, United Kingdom

June. 2015 - July. 2016 • Pricing Hybrid derivative products, correlation, and volatility. Analyzing trading strategies on both mid-term and long-term perspectives.

> Paris, France Sept. 2013 - June 2017

Sept. 2016 - April 2017

Paris, France

Paris, France

Sept. 2017 - April 2021

Lvon, France Sept. 2011 - June 2013

Ugo Tanielian · Résumé

### Paris, France

Apr. 2021 - Now

Paris, France

Paris, France

Oct. 2017 - Apr. 2021