

# Hugo Yèche

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**Last year PhD student in ML, specializing in deep learning for multivariate time-series, looking for opportunities in machine learning for the healthcare industry.**

## EDUCATION

### **ETH Zürich (Ongoing)**

*Ph.D - 2020-2024*

I'm currently enrolled as a Ph.D. student in the Biomedical Informatics Lab under the supervision of Gunnar Rätsch. My thesis focuses on deep learning methodologies for event prediction from multivariate time-series. My main field of application is patient monitoring in the intensive care unit from EHR data.

### **ENS Paris-Saclay: MVA Master**

*Master Degree - 2018-2019*

The Mathématiques, Vision, Apprentissage (MVA) Masters is a highly selective program providing advanced training in applied mathematics for challenges arising in the machine learning research field.

### **Télécom Paris and EURECOM : Data Science Track**

*Engineering Degree - 2016-2019*

Télécom Paris and EURECOM are among France's top French public institutions of higher education and research (Grandes Ecoles). The data science track focuses on learning the necessary theory and computer science skills to build successful machine learning applications.

### **CPGE Blaise Pascal**

*Preparatory Classes - 2014-2016*

Two years of intensive study in Mathematics and Physics to prepare the national engineering school admission exams.

## SKILLS

**Languages:** French *native*, English *fluent* - TOFEL iBT 112/120, German *basic*

**Computer Science:** Python, C, Bash, SQL

**Fameworks/Library:** Pytorch, Tensorflow, Jax(beginner)

## WORK EXPERIENCE

### **Machine Learning Research Intern**

**2019-2020**

#### **ETH Zurich, BMI Lab**

Zurich, Switzerland

6 months experience in the Biomedical Informatics Lab of ETH Zurich. I've focused my work on representation learning by mutual information maximization for EHR applications.

### **Machine Learning Research Intern**

**2019**

#### **Imagia**

Montreal, Canada

6 months internship in the "Open Innovation Team". During this experience, I focused on interpretability for deep learning models in the medical field.

### **Data Science Intern**

**summer 2018**

#### **Vroomly**

Paris, France

In the context of a summer internship at Vroomly, a Parisian start-up, I developed a model to fill a database containing intervention time for more than 15000 vehicles and around 20 different interventions.

## TEACHING

### **Probabilistic Artificial Intelligence (PAI)**

**2020, 2021, 2022, 2023**

ETH Zürich

Zürich, Switzerland

Teaching assistant in the course lectured by Prof. Andreas Krause.

### **Introduction to Machine Learning (IML)**

**2021, 2022, 2023, 2024**

ETH Zürich

Zürich, Switzerland

Teaching assistant in the course lectured by Prof. Fanny Yang and Prof. Andreas Krause.

## SUPERVISION

**Semester Project:** Victoria Barenne, Yiran Li

**Master Thesis:** Severin Husmann, Phillippe Moesch, Victoria Barenne

## REVIEWING

**NeurIPS** (2021, 2022, 2023)

**ICML** (2022, 2023, 2024)

**ICLR** (2023, 2024)

## SELECTED PUBLICATIONS

**Dynamic Survival Analysis For Early Event Prediction** – \*Yèche, Hugo, \*Burger Manuel, Dinara Veshchezerova, and Gunnar Rätsch. - CHIL - **2024**

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**Temporal Label Smoothing for Early Event Prediction** – \*Yèche, Hugo, \*Alizée Pace, Gunnar Rätsch, and Rita Kuznetsova. - ICML - **2023**

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**HiRID-ICU-Benchmark — A Comprehensive Machine Learning Benchmark on High-resolution ICU Data** – \*Yèche, Hugo, \*Rita Kuznetsova, Marc Zimmermann, Matthias Hüser, Xinrui Lyu, Martin Faltys, and Gunnar Rätsch - NeurIPS (Dataset Track) - **2021**

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**Neighborhood Contrastive Learning Applied to Online Patient Monitoring** – \*Yèche, Hugo, \*Gideon Dresdner, Francesco Locatello, Matthias Hüser, and Gunnar Rätsch. - ICML - **2021**

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**UBS: A Dimension-Agnostic Metric for Concept Vector Interpretability Applied to Radiomics** – Yèche, Hugo, Justin Harrison, and Tess Berthier. - IMIMIC workshop at MICCAI - **2019**