# Thomas Benchetrit

## Contact


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- https://thomasbench.github.io/


## Personal info

- Master in Data Science at l'EPFL (Switzerland)
- Love for Big data handling, IA creativity & data analysis for decision making
- Musician & photographer

## Languages

- French (native)
- English (fluent)
- Spanish (intermediate)

## Technical skills

- Python, Scala, SQL,HTML/CSS/JS,, C++, Matlab, Latex, Git
- PyTorch, TensorFlow, Keras, Pandas, numpy, scikit-learn, OpenCv, nltk , Plotly, matplotlib
- Hadoop & Spark
- Familiar with ReactJs, D3js and Flask/Django frameworks

## Relational skills

- Curious & rigorous
- Passionate, open-minded
- Patient and great listening skills

## Hobbies

- **Music**
  - Involvement in several symphonic orchestras and big bands
  - EP published on Spotify
- **Photography**
  - Portrait photographer
  - photo editing and colorimetry on Photoshop

## Work experience

### Assemblée Nationale - Member of Parliament assistant

Data Scientist (July - October 2021)

- Data processing and creation of interactive visualizations around Covid french open-data using React & D3js
- Creation of the dataclimat.fr tool, a community-based webapp to visualize climat data, using Python and JS
- Regular tasks of a parliamentary assistant

### EPFL

Teaching Assistant in Mechanics, Thermodynamics & Algorithms (2019-2022)

- Teaching assistant for first year Physics & Microengineering Bachelor students
- Personalized training and help for each student

### Radio France International, China section

Internship in journalism ( May 2016)

- Reading and synthetizing news dispatches
- Involvement in the editorial board
- Training in the audiovisual technical professions

## Education

### EPFL , Lausanne, Suisse

Master in Data Sciences 2020-2022

- Machine Learning, Deep Learning, Supervised & unsupervised learning
- Computer Vision, NLP, Data Visualization
- Cryptography, Information security & privacy
- Python & ML oriented packages (numpy, Pytorch, pandas, Keras, TensorFlow, OpenCV, nltk)
- Distributed processing tools such as Hadoop & Spark
- Achieve state-of-the-art results with an Emotion-based image style transfer pipeline project using Python & OpenCV
- Functional programming in Scala

Bachelor in Physics 2017-2020

- Computer simulation of physical phenomenons using C++, Qt & Matlab
- Analysis, Linear Algebra, Advanced Physics, Probabilities, Computational Physics

### Uppsala Universitet, Uppsala, Suède

Academic exchange 2019-2020

- UI/UX design, Algorithms and Data Structure
- Quantum Mechanics, Computational Physics Elementary particle physics, Physics & Finance

## Association life

- Active membership in the Musical, an EPFL association to promote music on the EPFL campus
- Active membership in the Coaching, the welcome structure for new-arriving students (help the new student to feel at-ease and provide assistance in their academics)
- Organization of the Physics section Spring Gala
- TV broadcast for the Balelec music festival
- Photographer for the Agepoly events