

Tanguy Magne

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Graduated with a double master's degree between MINES PARIS - PSL and ENS PARIS SACLAY. Interested in shape modeling and geometry processing.

[in tanguy-magne](#)

[o tanguy-magne](#)

Education

École Normale Supérieure Paris-Saclay

Paris, France

Master's degree in Mathematics, Computer Vision and Machine Learning (MVA)

2021 – 2022

Key Courses : Convex Optimization, Computational Optimal Transport, 3D Computer Vision, Satellite Image Processing, Graphs in Machine Learning, Machine Learning for Time Series, 3D Point Clouds and Modeling.

Mines Paris - PSL

Paris, France

Master's degree in science and engineering. Top French master's degree. (5% admission rate)

2018 – 2022

Major : Digital Engineering and Complex Systems : machine learning applied to engineering.

Key Courses : Differential and Integral Calculus, Complex Analysis, Theory of Probability, Statistics, Stochastic Processes, Artificial Learning, Information Systems, Operations Research, High performance computing.

Lycée du Parc

Lyon, France

Intensive coursework in science (Mathematics, Physics, Computer Science)

2016 – 2018

Lycée Chaptal

Mende, France

Baccalauréat (High School Diploma). Obtained with highest honors - 19.8/20

2016

Professional Experience

Interactive Geometry Lab (ETHZ), Visiting Researcher

Zurich, Switzerland

Research project aimed at designing a new document unwarping algorithm using geometric priors on the shape of a sheet of paper.

2022 – 2023 (5 months)

Conducted under the supervision of Prof. Dr. Olga Sorkine-Hornung.

Eyeware, Computer Vision Research Intern

Martigny, Switzerland

Research to leverage synthetic data for head and gaze tracking

2022 (6 months)

- Literature reading about state-of-the-art methods in facial landmarks detection and efficient neural networks.
- Datasets analysis to understand the differences between real and synthetic ones, using OpenCV.
- Implementation of a complete pipeline for model training, using PyTorch.

Neural Concept, Research Intern

Lausanne, Switzerland

Research in the field of transfer learning for geometric deep learning

2020 – 2021 (12 months)

- Read literature about state-of-the-art methods in transfer learning and multitask learning.
- Used 3D libraries allowing to work with meshes inside Python (PyMesh, PyVista).
- Implementation of new models fitting the framework of the company, using Python and Tensorflow.
- Worked within an international team with 10 engineers inside a booming start-up.

Computer skills

Proficient : Python, PyTorch, TensorFlow, git, SQL
L^AT_EX, Microsoft Office, Gimp

Intermediate : C++, Java, MATLAB, BASH

Language Skills

English : Professional Proficiency (TOEFL : 108/120)

French : Native Speaker

Spanish : Intermediate (B1)

Extra-curricular activities

Student's Union, Member

Paris, France

In charge of welcoming new eligible candidates.

2019 – 2020

Hobbies

Sport: Table Tennis (Competition) - Outdoor Sport : Canyoning, Hiking

Others: Handiwork (full arrangement of a van for traveling), Car Mechanics, Interest in Zythology