

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.

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✉ tanguy-magne

Education

École Normale Supérieure Paris-Saclay

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

Paris, France

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

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

Paris, France

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

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

Lyon, France

2016 – 2018

Lycée Chaptal

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

Mende, France

2016

Professional Experience

Interactive Geometry Lab (ETHZ), Visiting Researcher

Zurich, Switzerland

2022 – 2023 (5 months)

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

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

Eyeware, Computer Vision Research Intern

Martigny, Switzerland

2022 (6 months)

Research to leverage synthetic data for head and gaze tracking

- 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

2020 – 2021 (12 months)

Research in the field of transfer learning for geometric deep learning

- 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
LaTeX, Microsoft Office, Gimp

Language Skills

English : Professional Proficiency (TOEFL : 108/120)

French : Native Speaker

Spanish : Intermediate (B1)

Intermediate : C++, Java, MATLAB, BASH

Extra-curricular activities

Student's Union, Member

Paris, France

2019 – 2020

In charge of welcoming new eligible candidates.

Hobbies

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

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