AXEL DINH VAN CHI

M.Sc. Student in Computational Science and Engineering, EPFL

@ axeldvc@gmail.com ☎ +41789601650 📍 Lausanne, Switzerland in axel-dinh-van-chi ⌗ axeldinh

EDUCATION

M.Sc. in Computational Science and Engineering
École polytechnique fédérale de Lausanne, EPFL

📅 Sep 2020 – Ongoing

B.Sc. in Mathematics
École polytechnique fédérale de Lausanne, EPFL

📅 Sep 2015 – Jul 2020

EXPERIENCE

Internship - Computational Imaging
Sony Europe B.V.

📅 Apr 2022 – Sep 2022   📍 Stuttgart, Germany

- Interpolation of BRDF data for rendering.
- Python and C++ implementations.
- Bi-weekly presentation to co-workers.

Private Teacher - Mathematics / Physics

📅 Mar 2018 – Apr 2022   📍 Lausanne

- Private lessons for high-school and university students.

Teaching Assistant
EPFL - Machine Learning CS-433

📅 Sep 2021 – Feb 2022   📍 Lausanne

- Preparation of exercises handout.
- Preparing and helping students.
- Grading of projects and exams.

DIGITAL SKILLS

Parallel Computing and Engineering

`Numerical Simulations of ODE's and PDE's` `OpenMP`
`Linear Algebra and Matrix Theory` `CUDA` `MPI` `Slurm`

Data Science and Machine Learning

`Pandas` `Scikit-Learn` `Anaconda`
`Deep Learning` `Computer Vision`
`PyTorch` `Natural Language Processing`

Programming Languages

`Python` `C++` `Matlab` `Java`

Else

`LaTex` `Git`

PROJECTS

PDE solving using Deep Learning
EPFL

- Implementation of a VPINN framework.
- Experiments on Helmholtz equation.

Transfer-Learning in NLP
EPFL

- Investigation of fine-tuning on Bert.
- Github.

Aicrowd Challenge
EPFL

- EPFL ML Road Segmentation (Link).
- Detection of roads on satellite images.

Data Analysis
EPFL

Paper extension, study of the racial disparities in the United States using real world data.

App development
Personal Project

- Scripting of Deep Learning models.
- Use of Android Studio.

LANGUAGES

French ●●●●●

English ●●●●○

Spanish ●●○○○

German ●●○○○

HOBBIES

- Sports (climbing, wake/snowboarding...).
- Travelling.
- Cooking.