Benjamin Missaoui

CS Master's student, looking for a 6 months internship Starting between May and July 2023

WORK EXPERIENCE

Research assistant, Autonomous Vehicles

Heudiasyc Lab (UTC | CNRS), Compiègne, France

September 2022 - now (supervisor: Dr Philippe Xu)

- Research topic: Car localization with centimeter-level accuracy
- Developing a deep learning based algorithm for street lamps detection to determine the vehicle position on a map.
- Generating automatically labelled training data by projecting the poles from a map into the vehicle frame.

Feb 2022 - June 2022 (5 months, supervisor: Dr Julien Moreau) Research topic: Partial LiDAR point clouds completion:

- Reimplemented and compared state of the art deep learning methods for LiDAR point clouds completion
- Deployed these algorithms on the lab's vehicles for real-world testing.

ML Research Intern, Computer Vision

Scortex, Paris, France

Core business: Automated quality inspection with Deep Learning July 2021 - Jan 2022 (6 months, supervisor: Antoine Cordier)

Research topic: unsupervised Anomaly Detection:

- Found a heuristic to remove defective parts in a fully unlabelled dataset with 90+ AUC. Findings published here.
- Fine-tuned pre-trained networks with self-supervision to improve defect detection AUC from 91.6 to 96.1 points.

EDUCATION

Master of Science in Computer Science

Georgia Institute of Technology, Atlanta, USA

From September 2022 to June 2024 (expected graduation date) Relevant Coursework : ML, autonomous robotics, algorithm design

Master of Science in Computer Science

UTC | Sorbonne Universities, Compiègne, France

From September 2018 to June 2023 (expected graduation date) GPA: 3.9/4.0

Relevant Coursework : Statistics, Data Science, OOP, Databases, Linear Algebra, Calculus, Neuroscience

About me

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linkedin.com/in/benjamin-missaoui

PUBLICATIONS

Data refinement for fully unsupervised visual inspection using pre-trained networks (2022)

PERSONALITY

Thorough, Hard-Worker, Organized, Communicative, Problem Solver, Team Player

SKILLS

Languages: Python, C/C++, Ruby, Java, PHP, R

Software engineering: code review, git, sprints, agile methodology

ML/DL frameworks: Numpy, Scipy, OpenCV, Kornia, Keras, sklearn, pandas, Tensorflow, PyTorch

Databases: PostegreSQL, mongoDB

CERTIFICATIONS

Coursera:

- Deep Learning specialization
- GANs specialization
- TensorFlow advanced techniques

LANGUAGES

French: native

• English: fluent (GRE: 155/170 VR, 164/170 QR, 4.5/6 AW, TOEFL: 110/120)

• Italian & German: elementary

INTERESTS

Music: Learning piano since 2019, member of the piano student club

Misc: Sport, Traveling