Damien Robert

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in damienrobert91

Damien Robert

PhD Student - 3D Deep Learning

Summary I am a PhD student in the CSAI team of the ENGIE Lab CRIGEN and the machine learning team STRUDEL of the LASTIG lab at IGN—the French Mapping Agency-under the supervision of Loïc Landrieu and Bruno Vallet. My recent work focuses on multimodal and multi-task learning on large-scale point clouds.

Positions

2020 - Present : PhD student, ENGIE Lab CRIGEN - LASTIG, IGN/ENSG

Multimodal, multi-task learning on large 3D poitn clouds

Advisors: Loïc Landrieu and Bruno Vallet

2017 - 2020 : R&D Engineer, SIRADEL, ENGIE

Deep Learning on large-scale, terrestrial/aerial, indoor/outdoor 3D/2D data

2017 : Co-Founder, Inspirama

Website gathering book recommendations from notorious people

2015 : *R&D Intern*, Dassault Systemes 6 mos

Dimensionality reduction and dynamic system modeling

2014 : R&D Intern, Dassault Systemes 6 mos

UX design

Education

2022: International Computer Vision Summer School Sicily, Italy

CV courses by world-renowned experts in academia and industry

2011 - 2015 : Ecole Centrale Lyon, MSc

Lyon, France

Lyon, France

2 yrs 8 mos

1 yr

Mathematics, Computer Science, Mechanics, Signal Processing, Automation

2017: CNRS AI Fall School Multi-disciplinary course for AI students and researchers

2017: Udacity, Machine Learning Engineer Nanodegree **MOOC**

Machine learning, mathematics, computer science

2015: Coursera **MOOC**

Introduction to Machine Learning

2009 - 2011: Chateaubriand High School

Rennes, France

Preparation course for exams to enter French engineering schools

2006 - 2009 : Victor & Helene Basch High School

Rennes, France

High School Diploma with honours, specialized in Sciences and English

Research Experience

Publications

o 2022, CVPR Best Paper Finalist: Damien Robert, Bruno Vallet, Loic Landrieu, Learning Multi-View Aggregation In the Wild for Large-Scale 3D Semantic Segmentation

Reviewing & Expertise

Reviewing: CVPR 2023, CVPRW Earth Vision 2022, ISPRS 2022

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Teaching

• 2022: ISPRS, Tutorial Instructor (Students and researchers-1 day)

Tutorial on Deep Learning for Remote Sensing o 2022: ENGIE CRIGEN lab, Tutorial Instructor

(Students and researchers-1 day)

(M1-12 hours)

Tutorial on 3D Deep Learning, Torch-Points3D & DeepViewAgg

o 2022: ENSG-IGN, Course Instructor (M2-9 hours) Deep Learning for Remote Sensing

o 2020: Ecole Polytechnique, Teaching Assistant **Computer Vision**

Open-source repositories

O drprojects/DeepViewAgg

Talks in Conferences and Invited Talk

2022

- IGN Self-Supervised Learning for Computer Vision
- BKG Multimodal learning on 3D and 2D
- **ICVSS** DeepViewAgg

- FISPRS 3D Deep Learning for Remote Sensing
- **ISPRS** DeepViewAgg
- **ENGIE CRIGEN lab** 3D Deep Learning, Torch-Points3D & DeepViewAgg
- AI4GEO project seminar DeepViewAgg
- IGN-ENSG Research Days DeepViewAgg

■ IGN-ENSG Research Days

Skills, Interests and Personal

Machine learning

- Deep learning
- LiDAR data
- o 3D data
- Multimodal learning
- Multi-task learning
- Unsupervised learning

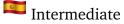
Computer science



Languages







International experience

2015 - 2016 : Backpacking •

o 2014 & 2015 : Providence, RI











