

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 point clouds

Advisors: Loïc Landrieu and Bruno Vallet

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

2 yrs 8 mos

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

2017 : *Co-Founder, Inspirama*

1 yr

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

Mathematics, Computer Science, Mechanics, Signal Processing, Automation

2017 : *CNRS AI Fall School*

Lyon, France

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

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

Reviewing & Expertise

- **Reviewing** : CVPRW Earth Vision 2022, ISPRS 2022

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Teaching

- 2022 : ENSG-IGN, *Course Instructor* Deep Learning for Remote Sensing
- 2020 : Ecole Polytechnique, *Teaching Assistant* Computer Vision

(M2-9 hours)

(M1-12 hours)

Open-source repositories

- 📁 drprojects/DeepViewAgg

Talks in Conferences and Invited Talk

🗣 oral 🎓 tutorial 🖼 poster

2022

- 🖼 ICVSS *DeepViewAgg*
- 🗣 CVPR *DeepViewAgg*
- 🗣 Ecole des Ponts, IMAGINE lab *DeepViewAgg*
- 🎓 ISPRS 3D Deep Learning for Remote Sensing
- 🖼 ISPRS *DeepViewAgg*
- 🎓 ENGIE CRIGEN lab 3D Deep Learning, Torch-Points3D & *DeepViewAgg*
- 🗣 Ecole Polytechnique, LIX lab *DeepViewAgg*
- 🗣 AI4GEO project seminar *DeepViewAgg*
- 🗣 IGN-ENSG Research Days *DeepViewAgg*
- 🗣 GDR ISIS seminar *DeepViewAgg*

2021

- 🗣 IGN-ENSG Research Days

Skills, Interests and Personal

Machine learning

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

Computer science



Languages

- 🇫🇷 Native
- 🇬🇧 Fluent
- 🇪🇸 Intermediate

International experience

- 2015 - 2016 : Backpacking 🌍
- 2014 & 2015 : Providence, RI 🇺🇸

Personal interests

