

QUENTIN BOUNIOT

105 Rue Didot ◇ Paris, France 75014

(+33) · 626072685 ◇ quentin.bouniot@cea.fr

<https://qbouniot.github.io> ◇ <https://www.linkedin.com/in/quentin-bouniot/>

EDUCATION

CEA-List / Université Jean-Monnet Saint-Étienne

PhD in Computer Science

2019-Present

Paris, France

Thesis : "Few-Shot Learning : Application to Object Detection and Semantic Instance Segmentation",

Advisor : Prof. Amaury Habrard

CentraleSupélec

M.Sc in Computer Science

2015-2019

Paris, France

Majoring in Robotics and AI

Université de Lorraine

M.Sc in Computer Science

2018-2019

Nancy, France

Majoring in Machine Learning, Vision and Robotics

Higher School Preparatory Classes

Section Mathematics and Physics

2013-2015

Bordeaux, France

Intensive preparatory course for national competitive exams to the *grandes écoles*.

Baccalauréat

Major in Mathematics

2013

Tahiti, French Polynesia

High Honors

WORK EXPERIENCE

CEA List

AI Research Intern

April - September 2019

Paris, France

Studying the impact of adversarial examples on person re-identification systems.

Improving the robustness of person re-identification systems using deep learning.

SmartBuild Asia

Data Scientist Intern

February - August 2018

Kuala Lumpur, Malaysia

Automatic gathering of online complex data and matching with existing information.

Matching millions of unstructured sentences in both Malay and English to the construction project they were referring to.

Summarization of web pages in a few sentences with high accuracy.

Orange France

Intern in the Department of Cognitive Computer Science

July 2017 - January 2018

Paris, France

Development of tools for Conversational Agents

Architecture development for conversational agents that support collaborative learning.

TEACHING

Algorithms and complexity
Teaching Assistant, CentraleSupélec

2020-Present
Paris, France

PUBLICATIONS

CONFERENCE PROCEEDINGS

- **Quentin Bouniot**, Romaric Audigier, Angélique Loesch. "Optimal Transport as a Defense Against Adversarial Attacks." In *International Conference on Pattern Recognition (ICPR)*, 2020.
- **Quentin Bouniot**, Romaric Audigier, Angélique Loesch. "Vulnerability and Defense of Person Re-Identification Models to Adversarial Attacks." In *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) Workshops*, 2020. (**DeepMind Travel Award.**)

WORKSHOPS

- **Quentin Bouniot**, Ievgen Redko, Romaric Audigier, Angélique Loesch, Amaury Habrard. "Putting Theory to Work : From Learning Bounds to Meta-Learning Algorithms." In *NeurIPS Workshop on Meta-Learning (MetaLearn)*, 2020.

MANUSCRIPTS

- **Quentin Bouniot**, Ievgen Redko, Romaric Audigier, Angélique Loesch, Yevhenii Zotkin, Amaury Habrard. "Towards Better Understanding Meta-learning Methods through Multi-task Representation Learning Theory." arXiv preprint *arXiv :2010.01992*, 2020. <https://arxiv.org/abs/2010.01992>

PROFESSIONAL SERVICES

PEER REVIEW

- NeurIPS Workshop on Meta-Learning (MetaLearn), 2020
- International Conference on Artificial Intelligence and Statistics (AISTATS), 2021
- International Conference on Machine Learning (ICML), 2021
- Neural Information Processing Systems (NeurIPS), 2021
- IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), Special Issue on *Learning with Fewer Labels in Computer Vision*, 2021

INVITED TALKS

DataIA Workshop "Safety & AI"
CentraleSupélec

23th September 2020
Paris, France

Presentation of our published work on adversarial attacks against Person Re-Identification systems and their defenses.

TECHNICAL SKILLS

Computer Languages	Python, C++, Matlab, Java, Javascript
Machine Learning	Pytorch, Keras, Tensorflow, Scikit-Learn
Systems	Unix, Windows, SQL, Git, Vim

LANGUAGES

French	Native Language
English	C1 - CentraleSupélec TOEFL ITP : 610/677
Japanese	A2

VOLUNTARY SERVICES

Supélec Rézo	2015 - 2017
<i>Executive Board member</i>	<i>Paris, France</i>

Management and maintenance of the IT and network infrastructure of the CentraleSupélec campus (1000 users).
Administrator of several servers.

CentraleSupélec Gaming club	2015 - 2017
<i>President</i>	<i>Paris, France</i>

Manage and promote video-games events on the campus.

Student Gaming Network	2015 - 2017
<i>Member</i>	<i>Paris, France</i>

Federation of French students' associations of eSport.
Organize every year the *Student Gaming League*, an eSport tournament for students.