ROBIN COURANT

https://robincourant.github.io/info/

✉ robin.courant@inria.fr

📞 +33 6 89 67 86 07

EDUCATION

Master of mathematical and computational engineering   Sep 2020 - Mar 2021
IMT Atlantique, Brest, France
Advanced stochastic calculus / Optimization / Machine learning / Deep learning

Semester study abroad   Feb 2019 - Aug 2019
Universidad Técnica Federico Santa María, Valparaiso, Chile
Advanced statistics / Architecture of computers / Data base and structure

Bachelor of computer science (research cursus)   Sep 2017 - Jan 2019
IMT Atlantique, Brest, France
Stochastic calculus / Signal processing / Object-oriented programming

Intensive preparatory classes   Sep 2015 - Aug 2017
Prepa Joffre, Montpellier, France
Mathemathics / Physics / Basics of programming

RESEARCH & PROFESSIONAL EXPERIENCES

Research engineer   Nov 2021 - Present
Supervised by Prof. Marc Christie, MimeTIC team, INRIA, Rennes, France
Evaluation of a virtual reality tool for storytelling, EU project INVICTUS
Side projects: *Automatic editing* and *camera planning style*
Keywords: Computer vision, video understanding, computer graphics, deep learning

Research intern   Apr 2021 - Sep 2021
Supervised by Profs. V. Kalogeiton and C. Lino, GeoViC team, LIX, Paris, France
Co-supervised by Prof. M. Christie in the MimeTIC team, INRIA, Rennes, France
Understanding the movie style or what else can we learn from a movie?
Side project: *Funny moments detection in videos.*
Keywords: computer vision, video understanding, multi-modalities, deep learning

Research intern   Mar 2019 - Aug 2020
Supervised by Vincent Poulain d'Andecy, R&D, Yooz, Aimargues, France
Named-entity recognition for invoice segmentation.
Keywords: natural language processing, image processing, deep learning

Research intern   Sep 2019 - Feb 2020
Supervised by Kevin Adda, R&D, Better World, Paris, France
Subjectivity classification, sentiment polarity and keyword extraction for customer review analysis.
Keywords: natural language processing, quadratic programming, deep learning, machine learning

ACADEMIC SUPERVISION

Master student supervisor   Nov 2021 - Present
Co-supervision with Prof. Vicky Kalogeiton of a master student, X, Paris France
Multimodal (audiovisual) classification of movie directors
Keywords: computer vision, video understanding, multi-modalities, deep learning

AWARD

AI for Creative Video Editing and Understanding (ICCV workshop)   2021
Best paper award

PUBLICATIONS

Deep learning: tranformers and visual transformers (book chapter)   2021
Robin Courant and Vicky Kalogeiton
Machine learning for brain disorders, Olivier Colliot, Springer
Expected fall 2022.

FunnyNet: Self-supervised learning of funny moments in videos   2021
Zhi-Song Liu, Robin Courant and Vicky Kalogeiton
Submitted, under review

High-Level Features for Movie Style Understanding   2021
Robin Courant, Christophe Lino, Marc Christie, and Vicky Kalogeiton
ICCV workshop: AI for Creative Video Editing and Understanding (best paper
award)

RESEARCH INTERESTS & SKILLS

Research interests
Computer vision / Video understanding / Audio analysis / Multi-modal analysis / Deep learning /
Cinematography

Theoretical background
Probability theory / Statistics / Signal Processing / Optimization / Machine Learning

Technical skills
Python (*PyTorch*) / Julia / SQL / C++ / C# / Unity
Cluster computing (*SLURM*) / Cloud computing (*AWS, GCP, Azure*) / Operating systems (*MacOS, Linux*)

Language skills
French (*Native*) / English (*Advanced, TOEFL 99*) / Spanish (*Intermediate*) / German (*Elementary*)

MISCELLANEOUS

Member of the Computer Vision Foundation   2022

Participation to the ICCV workshop AI for Creative Video Editing and Understanding   2021

REFERENCES

Prof. Marc Christie
Assistant Professor, University of Rennes 1
Member of the INRIA Mimetic team

Prof. Vicky Kalogeiton
Assistant Professor, Ecole Polytechnique
Member of the LIX GeoViC team

Prof. Dominique Pastor
Professor, IMT Atlantique
Member of the Lab-STICC MATRIX team
Head of the master of mathematical and computational engineering