

# GINGER DELMAS

## » EXPERIENCE

### Applied Scientist Intern

Amazon (Seattle, USA)

October 2024 - now

### PhD candidate

Institut de Robòtica i Informàtica Industrial,  
CSIC-UPC & NAVER LABS Europe

December 2021 - now

» Leveraging text to improve human pose, shape, motion estimation and generation.

- **PoseScript**: introduce a dataset of 3D human poses and human-written descriptions. Develop models for text-to-pose retrieval and generation (patent & [ECCV 2022 paper](#) & [TPAMI 2024](#)).
- **PoseFix**: introduce a dataset of 3D human pose pairs and human-written modifying instructions. Develop models for text-guided pose edition and correctional text generation ([ICCV 2023 paper](#)).
- **PoseEmbroider**: build a versatile 3D-, visual-, semantic-aware human pose representation by learning to combine modalities instead of aligning them ([ECCV 2024 paper](#)).

### Research Engineer in Computer Vision

NAVER LABS Europe

November 2020 - December 2021

» Text-enhanced image search & text-to-pose retrieval.

- **Text-enhanced image search**: develop a new method that combines typical approaches from visual search and cross-modal retrieval ([patent](#) & [ICLR 2022 paper](#)).
- **Link 3D human poses to structural descriptions in natural language** by designing an automatic pose captioning pipeline to train a text-to-pose retrieval model (related to the PoseScript paper).

### Research Intern in Computer Vision

NAVER LABS Europe

April 2020 - October 2020

» Multi-Modal Retrieval on the Fashion IQ dataset : text-enhanced image search.

*Distinguished Presentation Award (Intern day)*

Design a model for text-enhanced image search, starting from a state-of-the-art cross-modal retrieval model between images and text. System integration in a Naver-internal demo platform.

## » EDUCATION

### International Computer Vision Summer School (ICVSS)

Sicily

July 2023

### Master's degree "Mathematics, Vision, Learning" (MVA)

Université Paris-Saclay & Institut Polytechnique de Paris

2019 - 2020

» Mathematics and Computer Science, Applied Mathematics specialization (grade: 17.1).  
*Computer Vision, NLP, Data Science, Deep Learning, Signal Processing, Reinforcement Learning.*

- **Computer Vision projects**: bird image classification, meter reading (ENS Challenge Data).
- **3D projects**: point cloud manipulation and classification, artificial 3D vision.
- **Speech & NLP projects**: grammatical parsing of sentences, voice commands classification.

### Engineering degree in Computer Sciences

Télécom Paris (ex-ENST), Institut Polytechnique de Paris

2017 - 2020

» Specialization in Data Science & 3D and Interactive Systems (cumulated GPA: 4).

*Machine Learning, Database, Web Data, Data visualization, Computer Graphics.*

**Classe préparatoire: preparatory class for the French grandes écoles**

2015 - 2017

## » PUBLICATIONS & PATENTS

🔗 PoseEmbroider: Towards a 3D, Visual, Semantic-aware Human Pose Representation, *Ginger Delmas, Philippe Weinzaepfel, Francesc Moreno-Noguer, Grégory Rogez*, [ECCV 2024](#)

🔗 PoseFix: Correcting 3D Human Poses with Natural Language, *Ginger Delmas, Philippe Weinzaepfel, Francesc Moreno-Noguer, Grégory Rogez*, [ICCV 2023](#)

🔗 PoseScript: 3D Human Poses from Natural Language, *Ginger Delmas, Philippe Weinzaepfel, Thomas Lucas, Francesc Moreno-Noguer, Grégory Rogez*, [ECCV 2022 + TPAMI 2024](#)

🔗 ARTEMIS: Attention-based Retrieval with Text-Explicit Matching and Implicit Similarity, *Ginger Delmas, Rafael S. Rezende, Gabriela Csurka, Diane Larlus*, [ICLR 2022](#)

## CONTACT



FRANCE



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[Personal webpage](#)  
[Google Scholar](#)

## RESEARCH INTERESTS

Computer vision.

*Linking text with other modalities.*

*Multi-modal retrieval, 3D human pose modeling, text generation.*

## AWARDS

Outstanding reviewer for CVPR 2024

Outstanding reviewer for ECCV 2024

## TECHNOLOGIES

🐧 Linux 📁 Git



Python (Pytorch), Java,  
SQL, C, C++ (OpenGL 4.5),  
HTML5,  $\text{\LaTeX}$

## LANGUAGES



French - Native Language



English - Fluent  
(102/120 pts at the IBT TOEFL)



Spanish - Fair (B2)

## ACTIVITIES



Obtained the music theory certificate from the conservatory. Have practiced the clarinet for 13 years. Practice the cello and the piano as an amateur. Have played in different local bands and orchestras.



Member of multiple student associations at Télécom Paris (2018-2019). WWOOFING in Finland (July 2018).



Parkour, Climbing