

GINGER DELMAS

▶▶▶ PhD student.

▶ EXPERIENCE

PhD candidate

Institut de Robòtica i Informàtica Industrial, December 2021 - now
CSIC-UPC & Naver Labs Europe

- ▶ 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](#)).
- **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](#)).

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

- ▶ "From perception to action." (examination certificate).

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

- 🔗 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*
- 🔗 ARTEMIS: Attention-based Retrieval with Text-Explicit Matching and Implicit Similarity, *Ginger Delmas, Rafael S. Rezende, Gabriela Csurka, Diane Larlus, ICLR 2022*
- 🔗 Data compatibility for text-enhanced visual retrieval, *Rafael Sampaio De Rezende, Diane Larlus, Ginger Delmas, Gabriela Csurka Khedari, U.S. Patent Application No. 17/847,848. 2023*

CONTACT

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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.*

TECHNOLOGIES

- 🐧 Linux 📁 Git
- </> Python (Pytorch), Java, SQL, C, C++ (OpenGL 4.5), HTML5, L^AT_EX

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 orchestras.
- 👥 Member of multiple student associations at Télécom Paris (2018-2019). WWOOFING in Finland (July 2018).
- 🏃 Parkour, Climbing
- ✈ USA, Canada, Australia, Asia, Europe