Julia Peyre

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I have completed my PhD at INRIA Paris, advised by Josef Sivic, Ivan Laptev and Cordelia Schmid. My research has focused on developping deep learning models for automatic image understanding. I also graduated from Ecole polytechnique in 2016 and got a Masters Degree in Mathematics, Machine Learning and Computer Vision (MVA) from Ecole Normale Supérieure de Cachan.

Education

2015–2019   **Phd in computer vision**, *Willow, INRIA*, Ecole Normale Supérieure, France.
Developing deep learning models to reason about visual scenes with language

2014–2015   **MSc in machine learning**, *MVA*, Ecole Normale Supérieure de Cachan, France.
Machine learning, computer vision, deep learning, graphical models, reinforcement learning

2011–2014   **Ecole Polytechnique**, *Palaiseau*, France.
Major in applied mathematics : operations research, probability and statistics

Research experience

2017-2019   **Monitoring**, *MVA*, ENS Cachan.
Supervising master projects on image captioning and retrieval with natural language queries

2017-2019   **Reviewing for conferences and journals**, *NIPS, IJCV*.

2016   **Teaching Assistant**, *MVA*, ENS Cachan.
Introduction to Probabilistic Graphical Models

2015   **Graduate Student Researcher**, *Willow, INRIA Paris*.
Developing deep learning models for object classification with noisy text labels

2014   **Graduate Student Researcher**, *UC Davis, Department of mathematics*, USA.
Developing regression models to predict wind scenarios for optimal dispatching of electricity

Publications

2019   **J. Peyre,** I. Laptev, C. Schmid, J. Sivic, *Detecting unseen visual relations using analogies*, In ICCV 2019.
We propose a deep learning model for zero-shot visual relation detection

2017   **J. Peyre,** I. Laptev, C. Schmid, J. Sivic, *Weakly-supervised learning of visual relations*, ICCV 2017 (oral, acceptance rate 2.1%).
We propose a discriminative clustering approach to detect visual relation with minimal supervision

Miscellaneous

Computer   Python, Matlab, Pytorch, Linux.
Languages   French (native), English (professional).

References

PhD advisors, *Josef Sivic, Ivan Laptev, Cordelia Schmid*.