

Julia Peyre

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I am a 4th year PhD student at INRIA, advised by Josef Sivic, Ivan Laptev and Cordelia Schmid. My research interests include : learning from few or weak data, understanding visual scenes, joint modeling of images and language.

Education

- 2015–present **Phd in computer vision**, *Willow, INRIA*, Ecole Normale Supérieure.
Learning to reason about scenes with images and language
- 2014–2015 **MSc in machine learning**, *MVA*, Ecole Normale Supérieure de Cachan.
Machine learning and vision : graphical models, object recognition, reinforcement learning
- 2011–2014 **Ecole Polytechnique**, *Palaiseau*.
Major in applied mathematics (operations research, applied probability and statistics)

Experience

- 2017-2018 **Monitoring**, *MVA (ENS Cachan)*, Supervising master projects for the course "Object Recognition and Computer vision".
- 2016 **Teaching Assistant**, *MVA (ENS Cachan)*, Introduction to probabilistic Graphical Models.
- 2015 **Graduate Student Researcher**, *Willow, INRIA*.
Developping robust losses for object classification with noisy annotations
- 2014 **Graduate Student Researcher**, *UC Davis, Department of mathematics, USA*.
Building decision models for the optimal dispatching of electricity

Publications

- 2018 **J. Peyre**, I. Laptev, C. Schmid, J. Sivic, *Detecting rare visual relations using analogies*, <https://arxiv.org/abs/1812.05736>.
- 2017 **J. Peyre**, I. Laptev, C. Schmid, J. Sivic, *Weakly-supervised learning of visual relations*, ICCV 2017 (oral).

MSc's applied projects

- 2015 **Learning to play Atari games on the Arcade Learning Environment**, *Ens Cachan*.
Implementing fundamentals reinforcement learning algorithms for AI agents (Python)
- 2015 **Click prediction of users (start-up Bublz)**, *Ens Cachan*.
Developping and comparing machine learning algorithms for click prediction of users (Matlab)
- 2014 **Optimal scheduling of airport ground staff (Air France)**, *CMAP, Ecole Polytechnique*.
Developping a stochastic algorithm for optimal assignment of Air France staff hours (Java)

Miscellaneous

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