

Robin Strudel

PhD Candidate

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Education

- 2018-present **PhD candidate in Computer Vision and Robotics**, *ENS, INRIA Willow*, Paris, France.
Learning to perform complex robotic tasks requiring visual abilities from experience and demonstrations.
Working on imitation learning, reinforcement learning, simulation to real world transfer and motion planning.
Advised by Ivan Laptev and Cordelia Schmid, INRIA Willow.
- 2017-2018 **MSc Machine Learning**, *ENS Paris-Saclay*, Paris, France.
Master's degree in mathematics, computer vision and machine learning (MVA).
Coursework: Computer vision, reinforcement learning, unsupervised learning and convex optimization.
Obtained with highest honors.
- 2013-2016 **MSc Probability, Bachelor in Mathematics**, *ENS Lyon*, Lyon, France.
Training in theoretical and applied mathematics.
Coursework: Probability, partial differential equations and differential geometry.
- 2013-2017 **Élève Normalien**, *ENS Lyon*, Lyon, France.
4 years full scholarship obtained through a highly competitive entrance exam.

Work Experience

- 2016-2017 **Visiting Student Researcher**, *UC Berkeley*, Berkeley, USA.
Modeled the effects of genome mutations on population genetics with diffusion processes.
Advised by Steve N. Evans, Department of Statistics.
- Spring 2016 **Masters' Thesis**, Oxford University, Oxford, UK.
Modeled the impact of natural selection on genome dynamics using hydrodynamic limits.
Advised by Julien Berestycki, Department of Statistics.

Publications

- Robin Strudel***, Ricardo Garcia, Ivan Laptev, Cordelia Schmid
Segmenter: Transformer for Semantic Segmentation
Technical report [Project page](#).
- Robin Strudel**, Ricardo Garcia, Justin Carpentier, Jean-Paul Laumond, Ivan Laptev, Cordelia Schmid
Learning Obstacle Representations for Neural Motion Planning
In Proc. CoRL 2020 [Project page](#).
- Robin Strudel***, Alexander Pashevich*, Igor Kalevtykh, Ivan Laptev, Josef Sivic, Cordelia Schmid.
Learning to combine primitive skills: A step towards versatile robotic manipulation.
In Proc. ICRA 2020 *equal contribution. [Project page](#).
- Alexander Pashevich*, **Robin Strudel***, Igor Kalevtykh, Ivan Laptev, Cordelia Schmid.
Learning to Augment Synthetic Images for Sim2Real Policy Transfer.
In Proc. IROS 2019, *equal contribution. [Project page](#).

Teaching

- 2019-present **Ecole Normale Supérieure**, *Paris, France*, Teaching Assistant.
Object recognition and computer vision.
Taught with Ivan Laptev, Cordelia Schmid, Jean Ponce and Josef Sivic.
- 2018-2019 **Université Pierre et Marie Curie**, *Paris, France*, Teaching Assistant.
Linear optimization and convexity. Introduction to python for mathematics.
Taught with Pauline Tan and Julien Guillod.

Computer Skills

- Languages Python, Latex, C++.
Libraries PyTorch, Tensorflow, PyBullet, Pinocchio, ROS.

Miscellaneous

- Languages French (native), English (fluent).
Sport Climbing, Volley-ball, Surfing, Cycling, Running, Hiking.