

# Guilhem Chéron

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## Education

- 2014-2018 **École Normale Supérieure (ENS)**, Paris, France, PhD.  
PhD in computer vision at Inria – Willow and Thoth (former Lear) project-teams. Supervised by Cordelia Schmid and Ivan Laptev. Structured modeling and recognition of human actions in video.
- 2013-2014 **École Normale Supérieure (ENS) de Cachan**, Cachan, France, MSc by Research.  
Master of Science by Research in mathematics, computer vision and machine learning (MVA).
- 2010-2013 **École Supérieure d'Ingénieurs de Rennes (ESIR)**, Rennes, France, Diplôme d'ingénieur.  
Engineer's degree in computer science, image processing and computer graphics.

## Work experience

- Oct.-January 2018/2019 **Microsoft Research – HoloLens project**, Cambridge, UK, Visiting researcher.  
Supervised by Andrew Fitzgibbon.
- April-July 2016 **Microsoft Research – Machine Intelligence and Perception group (MIP)**, Cambridge, UK, Research Internship.  
Supervised by Andrew Fitzgibbon. Study of machine learning methods for hand tracking.
- April-Sept. 2014 **Inria Paris – Willow team**, Paris, France, Research Internship.  
Recognition of human interactions.
- March-Sept. 2013 **Safran - Morpho**, Paris, France, End-of-degree Internship.  
Face recognition and 3D shape estimation.
- June-Sept. 2012 **French Atomic Energy Commission (CEA)**, Paris, France, Engineering Internship.  
Crowd simulation.

## Research interests

Computer vision, machine learning, action recognition and localization, deep learning.

## Publications

Guilhem Chéron, Anton Osokin, Ivan Laptev, and Cordelia Schmid. Modeling spatio-temporal human track structure for action localization. In *submitted to IJCV*, 2018.

Guilhem Chéron, Jean-Baptiste Alayrac, Ivan Laptev, and Cordelia Schmid. A flexible model for training action localization with varying levels of supervision. In *Proc. Advances In Neural Information Processing Systems (NIPS)*, 2018.

Guilhem Chéron, Ivan Laptev, and Cordelia Schmid. P-CNN: Pose-based cnn features for action recognition. In *Proc. IEEE International Conference on Computer Vision (ICCV)*, 2015.

## Reviewing

Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2018.  
Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2017.  
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2017.  
International Journal of Computer Vision (IJCV), 2017.  
International Journal of Computer Vision (IJCV), 2016.  
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2016.  
IEEE European Conference on Computer Vision, (ECCV) 2016.

## Programming

Languages Python, Matlab, C/C++, Lua.

Libraries Torch/Pytorch, OpenGL/GLSL.

Misc. Video game development with Ogre3D engine; visual servoing for autonomous robot projects navigation; SFX.

## Miscellaneous

Languages French (native) and English (fluent).

Hobbies Boxing and skiing.

## References

### **Cordelia Schmid**

Thoth project-team

Inria, Grenoble, France

<http://thoth.inrialpes.fr/~schmid/>

### **Ivan Laptev**

Willow project-team

École Normale Supérieure – Inria, Paris, France

<https://www.di.ens.fr/~laptev/>

### **Andrew Fitzgibbon**

Machine Intelligence and Perception group

Microsoft Research, Cambridge, UK

<https://www.microsoft.com/en-us/research/people/awf/>

### **Éric Marchand**

Lagadic project-team

Irisa – Inria, Rennes, France

<http://www.iris.fr/lagadic/team/Eric.Marchand-eng>