

# Guilhem Chéron

Machine Learning Engineer / MLOps  
Lead Consultant

France  
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*As a Machine Learning Engineer / MLOps, I am very interested in deploying ML models in production and all the related practices (Cloud architecture, MLOps, machine learning and full stack).*

## 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

- Feb. 2023 - Now **Devoteam Revolve - Machine Learning Engineer / MLOps - Lead Consultant**, Paris, France.  
**Generative AI / Machine Learning Engineer - Lead Consultant @Bouygues Telecom :**
- Studying generative AI and large language models (LLM)
  - Deploying LLM related applications in the AWS cloud
  - LLM / Embedding: OpenAI, Azure OpenAI, Amazon Bedrock, Google Vertex AI
  - LangChain, ReAct Agents, Retrieval Augmented Generation (RAG)
- Cloud Engineer @Proovstation :**
- Building a Landing Zone in the AWS cloud
  - Implementation of an automation and continuous integration approach
  - Training and knowledge sharing
- Feb. 2019 - Feb. 2023 **Jules sas – Authentifier.com**, Rennes, France, Counterfeit detection..  
**Lead Machine Learning Engineer / MLOps :**
- Building ML workflows/ MLOps systems consisting of multiple components including : data pipeline, model training, model testing, model deployment, experiment tracking, data versioning, model registry, batch processing, data labeling (with active learning), model monitoring, CI/CD
  - Building an image search engine : store, index, and manage massive (image) embedding vectors, query API, feature extraction and indexing scheduler
  - Building webapp / dashboards
- This was hosted both in a cloud (AWS) or in an on-premise environment.
- Lead Data Scientist**
- Building computer vision models targeting counterfeit detection
  - Leading the research team of 4 data scientists
- 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.

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## Certifications

AWS Certified Solutions Architect - Associate

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## Stack (general)

- Favorite languages Python, JavaScript
- Ops/IaC AWS, Docker, Terraform, Gitlab, Ansible
- Backend FastAPI, Flask, Node.js/Express
- Frontend Vue.js
- ... deployed with AWS: ECS, EC2, API Gateway, ALB, CloudFront+S3, ...
- Other web Cognito, Nginx, Apache
- Databases SQL, DynamoDB, MongoDB
- OS Linux/MacOS
- Interests (as a geek) I am very interested in full stack development (Cloud architecture, debugging, WebApp, IT/servers, ...)

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## Stack (ML)

- ML frameworks PyTorch, LangChain, PyTorch Lightning, SageMaker, HuggingFace
- NLP OpenAI, Azure OpenAI, Amazon Bedrock, Google AI
- ML model deploy SageMaker, TorchServe, JIT/TorchScript/ONNX
- Managed ML Amazon Bedrock, AWS Rekognition
- Exp. tracking MLFlow

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## Research interests

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

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## 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.

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## Miscellaneous

- Languages French (native) and English (fluent).
- Hobbies Sport: boxing, bodybuilding, skiing  
Music: Computer music/beatmaking, singing

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## References

### **Cordelia Schmid**

Thoth project-team

Google research - 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.irisa.fr/lagadic/team/Eric.Marchand-eng>