

Amélie Royer

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LINKS

 Google Scholar
 Github (@ameroyer)
 LinkedIn
 X (@royaleerieme)
 Kaggle (@ameroyer)

COMMUNITY

PEER REVIEW

Reviewer for CVPR, ICML, ICCV, ICLR, etc. Outstanding reviewer at ICCV'23, NeurIPS'22-'23

TEACHING

Teaching Assistant for the Deep Learning course at ISTA in 2018-2020

TECHNICAL

SKILLS

Programming
 Python
 Pytorch • Tensorflow • Jax

Visualisation Tools

Matplotlib • Streamlit
 Markdown • \LaTeX

Utilities

Ray • Docker • Git • VSCode

SELECTED PROJECTS

 BatchShaping Loss Implementation
 Python • Pytorch • Matplotlib

Codenames Solo

Python • Streamlit

GLOW Generative Model Implementation

Python • Jax

Object Detection with Grouped Instances

Python • Tensorflow

LANGUAGES

French • Native
 English • Fluent
 German • Advanced
 Dutch • Beginner

WORK

QUALCOMM AI RESEARCH | STAFF ENGINEER (2021-TODAY)

Deep Learning Researcher in the Model Efficiency Team
 Amsterdam, The Netherlands

EDUCATION

INSTITUTE OF SCIENCE AND TECHNOLOGY AUSTRIA PhD (2015-2020)

"Structured Representations for Computer Vision". Advised by Pr. C. H. Lampert
 Vienna, Austria

ÉCOLE NORMALE SUPÉRIEURE DE RENNES MS & BS (2012-2015)

Computer Science major. Graduated with first-class honours
 Rennes, France

CLASSES PRÉPARATOIRES AUX GRANDES ÉCOLES (2010-2012)

Lycée Georges Clémenceau, MPSI-MP*
 Reims, France

INTERNSHIPS

GOOGLE BRAIN ZÜRICH, SWITZERLAND (2020, 5 MONTHS)

Knowledge Distillation for Transfer Learning and Model Efficiency. Advised by Lucas Beyer and Alexander Kolesnikov

GOOGLE BRAIN LONDON, UNITED KINGDOM (2017, 6 MONTHS)

Unsupervised Semantic Style Transfer with GANs. Advised by Konstantinos Bousmalis and Stephan Gouws

INRIA RENNES, FRANCE (2015, 6 MONTHS)

Unsupervised Clustering via Random Classifiers for Text and Audio Data. Advised by Vincent Claveau and Guillaume Gravier

ISTA, VIENNA, AUSTRIA (2014, 3 MONTHS)

Adapting Pre-trained Classifiers to Unknown Test Labels Distribution On-the-fly. Advised by Christoph H. Lampert

INRIA RENNES, FRANCE (2013, 3 MONTHS)

Video Retrieval Using Circular Fourier Transforms. Advised by Hervé Jégou and Teddy Furon

SELECTED PUBLICATIONS

2023	NeurIPS	Scalarization for Multi-Task and Multi-Domain Learning at Scale A. Royer , T. Blankevoort, B. E. Bejnordi
2023	ICCV Workshops	MSViT: Dynamic Mixed-Scale Tokenization for Vision Transformers J. D. Havtorn*, A. Royer *, T. Blankevoort, B. E. Bejnordi
2022	CVPR (oral)	Knowledge Distillation: A Good Teacher is Patient and Consistent L. Beyer*, X. Zhai*, A. Royer *, L. Markeeva*, R. Anil, A. Kolesnikov*
2020	WACV	Grouped Instances for Efficient Detection in Low-Resource Scenarios A. Royer , C. H. Lampert
2018	ICML Workshops	Unsupervised Image-to-Image Translation for Many-to-Many Mappings A. Royer , K. Bousmalis, S. Gouws, F. Bertsch, I. Mosseri, F. Cole, K. Murphy