 Bern, Switzerland


 simon.jenni@inf.unibe.ch

 sjenni.github.io

 [Google Scholar](#)

 [Github](#)

Languages

- German 
- English 
- French 

Skills

Programming Languages:

- Python
- Matlab
- Java
- Objective-C

Frameworks:

- Tensorflow
- PyTorch
- Caffe
- SciPy
- Numpy
- OpenCV

SIMON JENNI

Researcher in Machine Learning / Computer Vision

My research interests are in computer vision and deep learning. More specifically, I am interested in methods that learn representations of visual data without human supervision.



Education

PhD in Computer Science – University of Bern	2017–
Topics: Analysis and design of self-supervised learning methods	Now
Advisor: Prof. Paolo Favaro	
MSc in Computer Science – University of Bern	2015–
Specialization in advanced information processing	2017
<i>summa cum laude</i>	
Thesis: <i>From Cartoons to Real Images: An Approach to Unsupervised Visual Representation Learning</i>	
BSc in Computer Science – University of Bern	2011–
Minors in mathematics (60 ECTS) and physics (30 ECTS)	2015
<i>magna cum laude</i>	
Thesis: <i>A Study of 3D Deformable Parts Models for Detection and Pose-Estimation</i>	



Professional Experience

Junior Data Analyst – Philip Morris International	2016
Development of a Matlab tool for the automatic analysis of ciliary beating videos. The tool extracts key features such as tissue activity and main beating frequency with higher accuracy than prior methods.	
Software Engineering Intern – Adnovum	2015
I worked on a mobile payment app, implementing several parts of the iOS version in Objective-C.	



Publications

Video Representation Learning by Recognizing Temporal Transformations	2020
S. Jenni, G. Meishvili, and P. Favaro, in European Conference on Computer Vision (ECCV), 2020.	
Steering Self-Supervised Feature Learning Beyond Local Pixel Statistics (oral)	
S. Jenni, H. Jin and P. Favaro, in Proc. of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2020.	
Learning to Have an Ear for Face Super-Resolution (oral)	
G. Meishvili, S. Jenni and P. Favaro, in Proc. of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2020.	

Reviewing Activities:

- CVPR 2019
- ICCV 2019
- MVA 2019
- CVPR 2020
- ECCV 2020
- TPAMI 2020
- ICPR 2020

Volunteer Activities:

Supervision of a Swiss Youth in Science project on “Object Recognition with Neural Networks”

Other Interests:

- Music (electric guitar)
- Cooking
- Travelling
- Sports
- Personal finance

On Stabilizing Generative Adversarial Training with Noise 2019
Simon Jenni and Paolo Favaro, in Proc. of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2019.

EEG-based Outcome Prediction after Cardiac Arrest with Convolutional Neural Networks: Performance and Visualization of Discriminative Features
S. Jonas, A. Rossetti, M. Oddo, S. Jenni, P. Favaro and F. Zubler, in Human Brain Mapping, 2019.

Deep Bilevel Learning 2018
S. Jenni and P. Favaro, in European Conference on Computer Vision (ECCV), pp. 618–633, 2018.

Self-Supervised Feature Learning by Learning to Spot Artifacts (spotlight)
S. Jenni, and P. Favaro, in Proc. of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2018.



Awards

ECCV Top Reviewer 2020

CVPR Outstanding Reviewer 2019

Best Poster Award 2018
PRAIRIE and MIAI Artificial Intelligence Summer School (PAISS)

Best Master Thesis in Computer Science 2017
Joint Alumni Association in Computer Science (JAACS)



Teaching

Machine Learning (BSc course) – University of Bern 2017–
Teaching assistant and substitute lecturer 2019

Advanced Topics in Machine Learning (MSc course) – 2018–
University of Bern 2020
Teaching assistant

Bern Winter School on Machine Learning (CAS course) – 2019
University of Bern
Lecturer



Invited Talks

Brainweek Bern – University of Bern 2019
Talk titled “How computers learn to see”

Workshop on Machine Learning – National Centre of Competence in Research PlanetS
Practical session on “Identifying Exoplanets with Deep Learning using TensorFlow and Keras”