


# 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.



 Bern, Switzerland

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 [sjenni.github.io](http://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



### Education

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



### Professional Experience

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- 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

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- Self-Supervised Multi-View Synchronization Learning for 3D Pose Estimation (oral)** 2020  
S. Jenni and P. Favaro, in Asian Conference on Computer Vision (ACCV), 2020.
  - Video Representation Learning by Recognizing Temporal Transformations**  
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.

## Reviewing Activities:

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

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<b>Learning to Have an Ear for Face Super-Resolution (oral)</b>	2020
G. Meishvili, S. Jenni and P. Favaro, in Proc. of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2020.	
<b>On Stabilizing Generative Adversarial Training with Noise</b>	2019
S. Jenni and P. Favaro, in Proc. of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2019.	
<b>EEG-based Outcome Prediction after Cardiac Arrest with Convolutional Neural Networks: Performance and Visualization of Discriminative Features</b>	
S. Jonas, A. Rossetti, M. Oddo, S. Jenni, P. Favaro and F. Zubler, in Human Brain Mapping, 2019.	
<b>Deep Bilevel Learning</b>	2018
S. Jenni and P. Favaro, in European Conference on Computer Vision (ECCV), pp. 618–633, 2018.	
<b>Self-Supervised Feature Learning by Learning to Spot Artifacts (spotlight)</b>	
S. Jenni, and P. Favaro, in Proc. of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2018.	



## Awards

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<b>ECCV Top Reviewer</b>	2020
<b>CVPR Outstanding Reviewer</b>	2019
<b>Best Poster Award</b> PRAIRIE and MIAI Artificial Intelligence Summer School (PAISS)	2018
<b>Best Master Thesis in Computer Science</b> Joint Alumni Association in Computer Science (JAACS)	2017



## Teaching

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<b>Machine Learning (BSc course)</b> – University of Bern Teaching assistant and substitute lecturer	2017– 2019
<b>Advanced Topics in Machine Learning (MSc course)</b> – University of Bern Teaching assistant	2018– 2020
<b>Bern Winter School on Machine Learning (CAS course)</b> – University of Bern Lecturer	2019



## Invited Talks

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<b>Brainweek Bern</b> – University of Bern Talk titled “How computers learn to see”	2019
<b>Workshop on Machine Learning</b> – National Centre of Competence in Research PlanetS Practical session on “Identifying Exoplanets with Deep Learning using TensorFlow and Keras”	

## 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