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UNIVERSITÄT  
BERN



**University of Bern**  
**Bern Winter School on**  
**Machine Learning**

**27 – 31 January 2020 (FULL)**  
**2 – 6 March 2020 (FREE PLACES)**  
**Hotel Regina, Mürren**

[www.math.unibe.ch/ml\\_winter](http://www.math.unibe.ch/ml_winter)

# Bern Winter School on Machine Learning



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**UNIVERSITÄT  
BERN**

Faculty of Science  
Mathematical Institute

Four days of lectures on Machine Learning and  
Deep Neural Networks with TensorFlow tutorials

**27 – 31 JANUARY 2020 (FULL) & 2 - 6 MARCH 2020 (FREE PLACES)**

Benefit from four half-day lectures and tutorials on Machine Learning. School languages are English and Python. The neural network tool is TensorFlow.

The location is the legendary Hotel Regina in the fabulous ski resort Mürren, two hours by train from Bern. The afternoons are free for skiing, swimming, wellness or individual project work. There will be a common dinner every evening with select talks.

The Winter School counts as the third module (2 ECTS) of the CAS Applied Data Science University of Bern.

## Agenda

- 1<sup>st</sup> day▶ Introduction to ML & TensorFlow
- 2<sup>nd</sup> day▶ Deep Feedforward Neural Networks
- 3<sup>rd</sup> day▶ Optimisation of Neural Networks
- 4<sup>th</sup> day▶ Convolutional Neural Networks & Recursive Models

Projects with own datasets will be presented by the participants and assessed at the University of Bern two weeks after the school.

## Lecturers and coaches

Prof. Dr. Dr. Claus Beisbart, Prof. Dr. Radhakrishna Achanta,  
Prof. Dr. Géraldine Conti, PD Dr. Sigve Haug  
Dr. Mykhailo Vladymyrov, Dr. Kinga Sipos et al.

Fee for students and staff University of Bern: Course fee 600 CHF  
+ 800 CHF (hotel, half-board, coffee breaks, lunch package).

Fee for externals: Course fee 1'100 CHF + 800 CHF

Registration via: [www.math.unibe.ch/ml\\_winter](http://www.math.unibe.ch/ml_winter)

Contact: [cas-ads@math.unibe.ch](mailto:cas-ads@math.unibe.ch)