

Course introduction

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High-Performance Computing and Analytics Lab, Universität Bonn

Organization

Machine Learning Applications

Organization

Who are we?

Instructors

- Elena Trunz, Postdoc with the Visual Computing Group
 - `trunz@cs.uni-bonn.de`
- Moritz Wolter, Postdoc with the HPCA Lab
 - `moritz.wolter@uni-bonn.de`

Teaching Assistants:

- Pauline Lion, Bachelor student Computer Science
- Konstantin Gasenzer, Master student Computer Science
- Zahra Ganji, Master student Computer Science
- Lokesh Veeramacheneni, Ph.D. student with the HPCA Lab.

- We will upload Github-Classroom links, Lecture recordings and slides onto Ecampus.
 - `https://ecampus.uni-bonn.de/`
 - To access eCampus, you need a UniID → helpdesk HRZ.
- You can opt out of GitHub use. We provided zip files via Ecampus.
- We envision a hands-on course experience.
- You should be able to gain an intuition for modern machine learning algorithms and possible applications.
- Many exercises come with unit tests, which allow you to check your work.

Machine Learning Applications

Machine learning is everywhere

- Medical Image processing
- Protein structure prediction
- Language processing
- Virtual personal assistants
- Fraud detection
- Self-driving cars
- Recommendations
- Search
- Photo editing