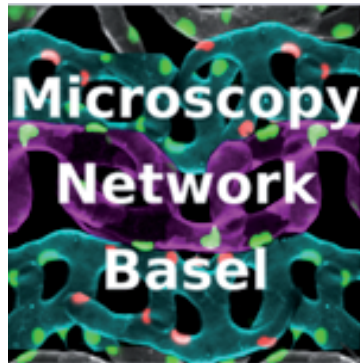


# MIAP Workshop Series 2019



**FMI**

Friedrich Miescher Institute  
for Biomedical Research



**DFG**

**UNI  
FREIBURG**

## CARE: Content-aware image restoration - A workshop for machine-learning-based image restoration

Friedrich Miescher Institute for Biomedical Research (FMI)  
Rooms 5.30 and 5.39  
Maulbeerstrasse 66  
4058 Basel, Switzerland

**November 12<sup>th</sup> 2019 (09:00 - 18:00)**

For more information and registration:

<https://miap.eu> - [info@miap.eu](mailto:info@miap.eu)

Motivated by the success of machine-learning for image processing, such approaches have recently been shown to be powerful alternatives to traditional image restoration algorithms for microscopy data.

This workshop will provide an introduction to CARE: Content-aware image restoration (<https://www.nature.com/articles/s41592-018-0216-7>), a deep-learning-based approach to denoising and reconstructing microscopy images.

We will discuss the concepts behind CARE, its use cases and the challenges that come with it. In the tutorial part of the workshop, participants will be taught how to set-up, train and validate CARE models using the programming language Python.

Experts: Florian Jug  
E-Mail: [jug@mpi-cbg.de](mailto:jug@mpi-cbg.de)

Markus Rempfler  
E-Mail: [markus.rempfler@fmi.ch](mailto:markus.rempfler@fmi.ch)

Tim-Oliver Buchholz  
E-Mail: [tbuchhol@mpi-cbg.de](mailto:tbuchhol@mpi-cbg.de)

