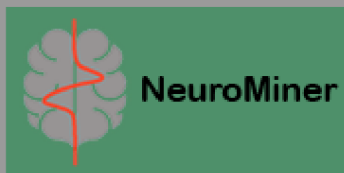


open to clinicians,  
PhDs & early career  
researchers

suitable for  
different levels of  
machine learning  
experience



supported by the machine  
learning platform NeuroMiner

## REGISTRATION

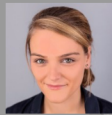
### Website



[https://www.pronia.eu/  
the-project/meetings](https://www.pronia.eu/the-project/meetings)

### Contact

Precision Psychiatry Lab, LMU Clinics  
[psy-nmss@med.uni-muenchen.de](mailto:psy-nmss@med.uni-muenchen.de)



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PostDoc Researcher &  
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# ONLINE MACHINE LEARNING SCHOOL

**19-23 Sep 2022**  
Virtual event

## FEES

Lectures only: free  
Lectures & Practicals: 300 €

Limited free spots for  
researchers affiliated with  
IMPRS-TP, LMU or LMU Clinics

Machine  
Learning for  
Clinical  
Neuroscientists



# LECTURES BY LEADING EXPERTS IN THE FIELD

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**Christos Davatzikos**  
University of Pennsylvania

Topic: Machine Learning in Neuroimaging: Towards Precision Diagnostics



**Emanuel Schwarz**  
Central Institute of Mental Health

Topic: TBA



**Karsten Borgwardt**  
ETH Zurich

Topic: TBA



**Nikolaos Koutsouleris**  
LMU Munich

Developer of NeuroMiner

... the rest of the speakers & topics are to be announced shortly!

# Agenda

## Day 1

- Topic: Introduction to machine learning concepts and tools (Nikos Koutsouleris)
- NeuroMiner tutorial: Cross-validation & preprocessing
- Expert lecture by Christos Davatzkos

## Day 2

- Topic: Machine Learning algorithms & optimization
- NeuroMiner tutorial: Algorithms and optimization
- Expert lecture by Emanuel Schwarz

## Day 3

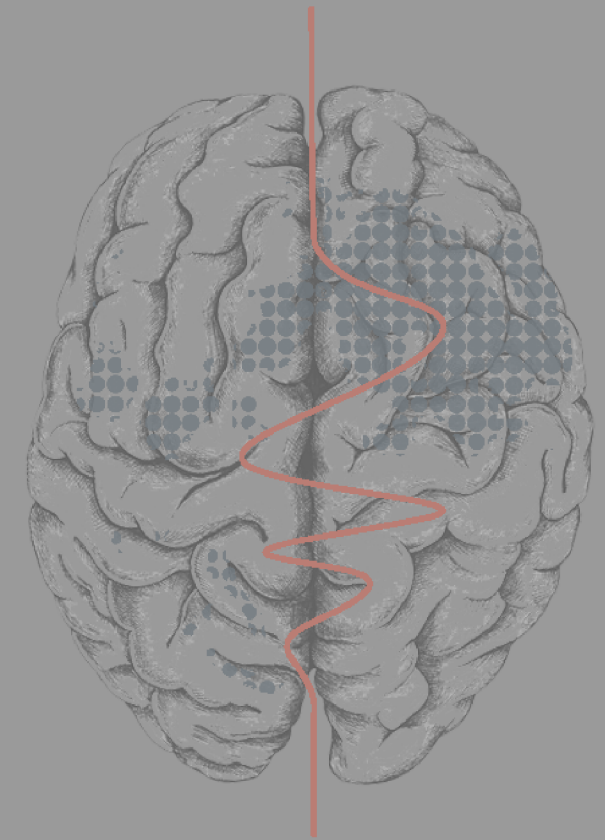
- Topic: Multi-site data correction & multi-modal data analysis
- NeuroMiner tutorial: Data correction and stacked generalization
- Expert lecture by Karsten Borgwardt

## Day 4

- Topic: Transparent & interpretable machine learning
- NeuroMiner tutorial: Interpretable machine learning
- Expert lecture by TBA

## Day 5

- Kaggle competition



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## LEARN

expert seminars on essential concepts

## PRACTISE

Hands-on NeuroMiner tutorials in small groups (max. 10 students/tutor)

## APPLY

Machine learning competition in teams (in Kaggle)