



STRUCTURES
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**UNIVERSITÄT
HEIDELBERG**
ZUKUNFT
SEIT 1386

3rd Workshop on Topological Methods in Data Analysis

Lightning talks, Friday, September 30

- 14.15h: **Aras Asaad:**
“Persistent homology to detect DeepFake faces”
- 14.25h: **Sebastiano Cultrera di Montesano:**
“Combinatorial and topological aspects of chromatic point clouds”
- 14.35h: **Eduardo Paluzo-Hidalgo:**
“Simplicial approximations and simplicial-map neural networks”
- *short break* -
- 14.55h: **Benjamin Matthias Ruppik:**
“Detecting relevant terms in word embedding spaces”
- 15.05h: **Renata Turkes:**
“Persistent homology detects convexity“
- 15.15h: **Osman Berat Okutan:**
“Decorated Merge Trees“
- *short break* -
- 15.35h: **Christian Hirsch:**
“Statistical hypothesis tests via persistence vineyards”
- 15.45h: **Niklas Hellmer:**
“Topology of random geometric complexes and applications in statistical hypothesis testing”
- 15.55h: **Vitaliy Kurlin:**
“Generic families of finite sets with identical 1D persistence”

All times are CEST (UTC+2). Zoom rooms will open a few minutes in advance.

Zoom via [this link](#)