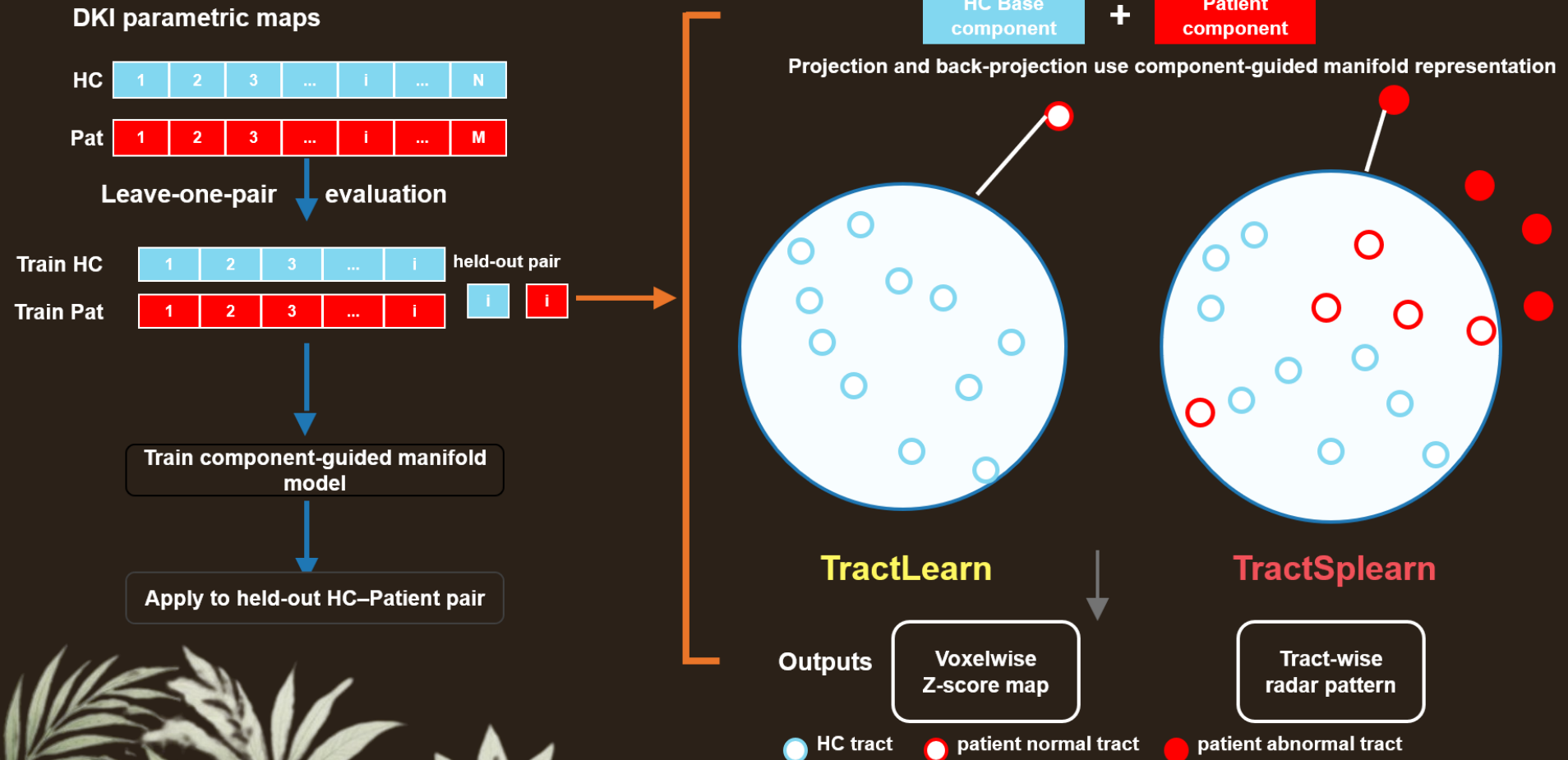
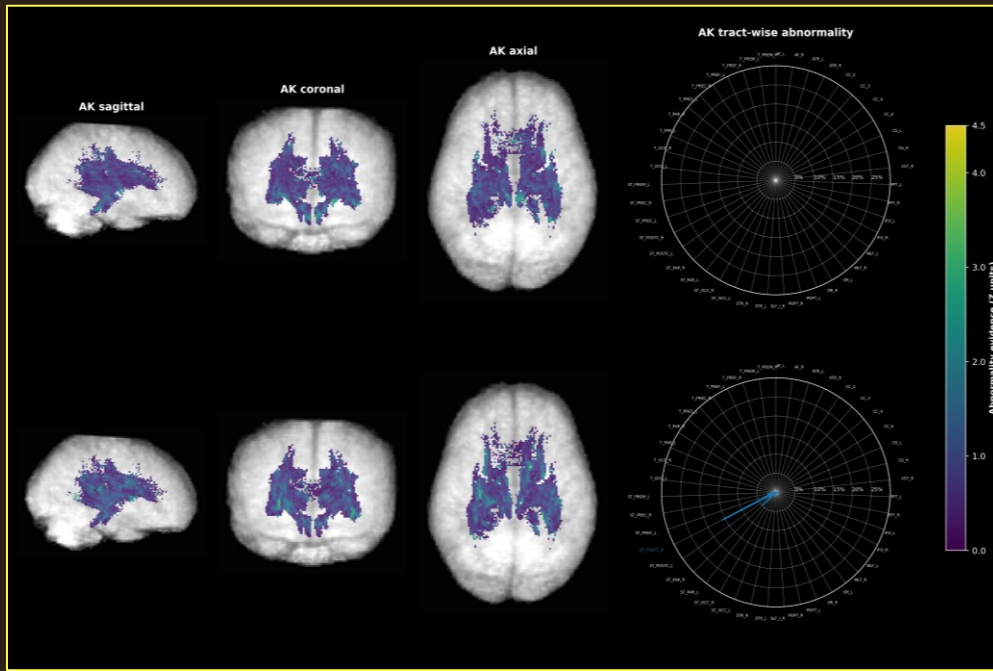


# TractSpLearn: Individualized White-Matter Abnormality Detection in Traumatic brain injury (TBI)

## TractSpLearn

- DKI fitting
- Tract Segmentation
- HC-Patient Manifold learning
- Feature back-projection
- Individual voxel wise maps

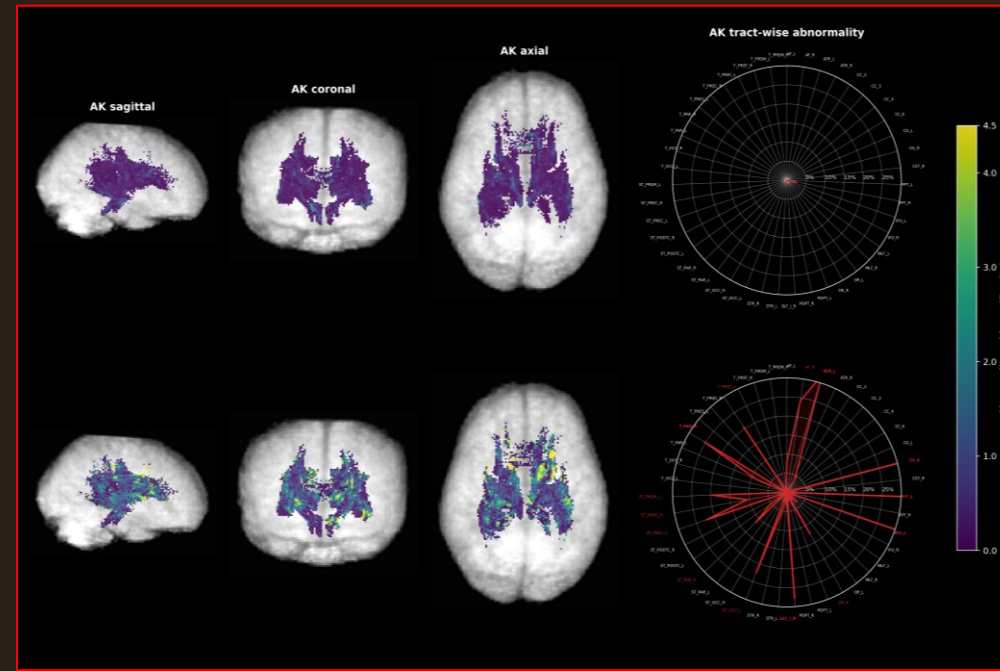




## TractLearn

Representative AK abnormality maps and tract-wise profiles, HC (top), RHI (bottom)

**Key findings:** TractSpLearn detected abnormalities in more patients than TractLearn: **56% vs 13% in Persistent Post-Concussive Syndromes (PPCS)** and **90% vs 35% in Repetitive Head Injuries (RHI)**.



## TractSpLearn

# Thank you !

## Questions or collaboration?

- Visit Poster #22
- Full Preprint and Code



preprint  
arXiv

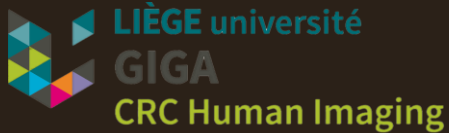


MaRBEL  
ORBi



Repo.  
GitHub

Presented by Jiqing Huang  
On behalf of the TractSpLearn team  
(ULiège · ULund · UMaastricht · GZU)



LUND  
UNIVERSITY



貴州大學  
GUIZHOU UNIVERSITY

## Interested in open & reproducible MRI , Join MRI TogetherThon 2026!

### Meet us at booth for more details



## SAVE THE DATE!

### 30 Nov-4 DEC 2026



Join the MRI community's first online hackathon.

Discover **open-source** tools and **develop together** a pipeline from sequence programming to image analysis, with **placental diffusion imaging** as real-world use case.

PROGRAM  
AVAILABLE!



REGISTRATION  
FORM OPEN!

