

Session Program

7-11 Sept 2026



Free Boundary Problems 2026

Free Boundary Problems in Data Science and Machine Learning

Humboldt Universität zu Berlin
Humboldt-Universität zu Berlin Unter den Linden 6 10099 Berlin

Monday 7 September

14:00

Free Boundary Problems in Data Science and Machine Learning: MS-13-1

Session |**Location:** HU (Hegelplatz), DOR24/Floor 1-Room 103 - Lecture Hall, HU Berlin Dorotheenstrasse 24 (Hegelplatz)
10117 Berlin |**Convener:** Eloi Martinet

14:00-14:30

Adversarial training: non-local perimeter regularization

Speaker

Ryan Murray

14:30-15:00

Decomposability and extremality properties of nonlocal perimeters and variations

Speaker

José A. Iglesias

16:00

Tuesday 8 September

10:30

Free Boundary Problems in Data Science and Machine Learning: MS-13-2

Session |

Location: HU (Hegelplatz), DOR24/Floor 1-Room 103 - Lecture Hall, HU Berlin Dorotheenstrasse 24 (Hegelplatz)
10117 Berlin |

Convener: Matthew Thorpe

10:30-11:00

Classification of large data with phase-field models

Speaker

Riccardo Cristoferi

11:00-11:30

Parametrizing Convex Sets Using A Sublinear Layer

Speaker

Eloi Martinet

11:30-12:00

Learning the Willmore flow with lightweight neural operators

Speaker

Simon Masnou

12:00-12:30

Medial Axis Aware Learning of Signed Distance Functions

Speaker

Samuel Weidemaier

12:30