

Eveliina Peltola

Academic career

2016	PhD in the University of Helsinki
2016-2019	Postdoc - University of Geneva
2019-	Bonn Junior Fellow

Research Projects and Activities

1. PI in Collaborative Research Center SFB 1060: "The Mathematics of Emergent Effects", 01.01.2021 - 31.12.2024
2. PI in Academy of Finland Project: Conformal invariance in planar random geometry, 09/01/2021 - 08/31/2026

Research profile

Schramm-Loewner evolutions

Understanding SLEs and their variants and relating them to critical lattice models and CFT.

Conformal Field Theory

Making sense of CFTs as scaling limits of critical lattice models, and using tools from CFT in probabilistic problems.

Algebraic structures

E.g. Temperley-Lieb algebra, its variants, and quantum groups in relation with critical lattice models, SLE, and correlation functions of CFT.

Critical phenomena and integrability

Understanding statistical physics models at and near criticality.

Selected publications