IWR Interdisciplinary Center for Scientific Computing

UNIVERSITÄT HEIDELBERG
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Probabilistic Machine Learning and Latent Variable Models for Molecular Data

Nowadays researchers can obtain quantitative measurements of the abundances and activities of different types of molecules across experimental conditions and spatio-temporal resolutions. In this talk, I will discuss how latent variable models can help us to extract major underlying patterns from the noisy, heterogeneous and high-dimensional data and how to accommodate the statistical properties of molecular data in such models. Case studies will demonstrate how this can help us to highlight core biological processes along development, in health and disease and pinpoint underlying molecular drivers.

Also streamed via Zoom

June 26, 2024 • 16:15

Mathematikon • Conference Room / 5th Floor
Im Neuenheimer Feld 205 • 69120 Heidelberg
www.iwr.uni-heidelberg.de/events/iwr-colloquium

HGS MathComp Mixer
Prior to the IWR-Colloquium: Get-together for all members of the HGS MathComp
15:30 · Mathematikon · Common Room / 5th Floor