

# Feature extraction

3 July 2024

Campus de Grenoble, Bâtiment IMAG  
150 place du Torrent, 38400 Saint-Martin-d'Hères

Zoom link: <https://ec-lyon-fr.zoom.us/j/98463950054>

- 9:30 - 10:15 **Pedro Rodrigues**: Diffusion maps and spectral embedding
- 10:15 - 11:00 **Titouan Vayer**: Distributional reduction: unifying dimensionality reduction and clustering with Gromov-Wasserstein
- 11:00 - 11:20 [Coffee break]
- 11:20 - 12:00 **Olivier Zahm**: Supervised dimension reduction, part I: Sensitivity analysis and gradient-based methods
- 12:00 - 13:30 [Lunch break]
- 13:30 - 14:15 **Olivier Zahm**: Supervised dimension reduction, part II: likelihood-informed subspaces for Bayesian problems
- 14:15 - 15:00 **Mickaël Binois**: Considering additivity and active subspaces for high-dimensional Gaussian process modeling
- 15:00 - 15:30 [Coffee break]
- 15:30 - 16:00 **Qiao Chen**: Coupled parameter-data dimension reduction for Bayesian inference
- 16:00 - 16:30 **Romain Verdière**: Diffeomorphism-based feature learning using Poincaré inequalities