Current PyDMD Capabilities

Noise-robust methods

| Forward-backward DMD | Total least-squares DMD | Optimal closed-form DMD | Subspace DMD | Physics-informed DMD | Optimized DMD |

| Including inputs and control | Data compression and sparsity promotion | | | Parameterized systems | with bagging (BOP-DMD) |

| DMD with control | Sparsity-promoting DMD | Compressed DMD | Randomized DMD | Parametric DMD | with eigenvalue constraints |

| Transient, intermittent, and multiscale dynamics | | Latent variable methods for partial measurements | | | Kernel methods for nonlinear systems |

| Multiresolution DMD | CoSTS | Hankel DMD | Higher order DMD | HAVOK | Extended DMD | LANDO |

Plotting Tools

Data Preprocessors

| Snapshot plotting | Mode plotting | Eigenvalue plotting | DMD diagnostic summary plotting | Centering | Time-delay | POD basis projection |