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Publications

PUBLICATIONS

• Note: Variational encoding of protein dynamics benefits from maximizing latent autocorrelation. The Journal of chemical physics
  Wayment-Steele, H. K., Pande, V. S.
  2018; 149 (21): 216101

• Constructing interpretable computational models of protein dynamics using information theory and variance minimization
  Husic, B., McKiernan, K., Wayment-Steele, H., Sultan, M., Pande, V.
  AMER CHEMICAL SOC.2018

• Variational encoding of complex dynamics PHYSICAL REVIEW E
  2018; 97 (6): 062412

• Transferable Neural Networks for Enhanced Sampling of Protein Dynamics JOURNAL OF CHEMICAL THEORY AND COMPUTATION
  Sultan, M. M., Wayment-Steele, H. K., Pande, V. S.
  2018; 14 (4): 1887–94

• On the Origins of Regulated Disorder within the C-Terminus of P53
  Hernandez, C. X., Wayment-Steele, H., Pande, V. S.
  CELL PRESS.2018: 428A

• Hierarchical Clustering of Markov State Models Reveals Sequence Effects in p53-CTD Dynamic Behavior
  Wayment-Steele, H. K., Hernandez, C. X., Husic, B. E., Pande, V. S.
  CELL PRESS.2018: 561A

• A Minimum Variance Clustering Approach Produces Robust and Interpretable Coarse-Grained Models JOURNAL OF CHEMICAL THEORY AND COMPUTATION
  2018; 14 (2): 1071–82

• Investigating the role of boundary bricks in DNA brick self-assembly SOFT MATTER
  Wayment-Steele, H. K., Frenkel, D., Reinhardt, A.
  2017; 13 (8): 1670-1680