



## Xiran Liu

Ph.D. Student in Computational and Mathematical Engineering, admitted Autumn 2018

### Publications

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#### PUBLICATIONS

- **A Dirichlet Model of Alignment Cost in Mixed-Membership Unsupervised Clustering** *JOURNAL OF COMPUTATIONAL AND GRAPHICAL STATISTICS*  
Liu, X., Kopelman, N. M., Rosenberg, N. A.  
2022
- **Deconvoluting complex correlates of COVID-19 severity with a multi-omic pandemic tracking strategy.** *Nature communications*  
Parikh, V. N., Ioannidis, A. G., Jimenez-Morales, D., Gorzynski, J. E., De Jong, H. N., Liu, X., Roque, J., Cepeda-Espinoza, V. P., Osoegawa, K., Hughes, C., Sutton, S. C., Youlton, N., Joshi, et al  
2022; 13 (1): 5107
- **Extracting hierarchical features of cultural variation using network-based clustering.** *Evolutionary human sciences*  
Liu, X., Rosenberg, N. A., Greenbaum, G.  
2022; 4
- **Effects of cultural transmission of surnaming decisions on the sex ratio at birth.** *Theoretical population biology*  
Liu, X., Feldman, M. W.  
2021
- **Diffusion Histology Imaging Combining Diffusion Basis Spectrum Imaging (DBSI) and Machine Learning Improves Detection and Classification of Glioblastoma Pathology.** *Clinical cancer research : an official journal of the American Association for Cancer Research*  
Ye, Z., Price, R. L., Liu, X., Lin, J., Yang, Q., Sun, P., Wu, A. T., Wang, L., Han, R. H., Song, C., Yang, R., Gary, S. E., Mao, et al  
2020