

# Stanford

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## Maria Xenochristou

Postdoctoral Scholar, Biomedical Data Sciences

### Bio

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#### STANFORD ADVISORS

- Serena Yeung, Postdoctoral Faculty Sponsor

### Publications

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#### PUBLICATIONS

- **Assessing the Impact of Climate Change on Future Water Demand using Weather Data** *WATER RESOURCES MANAGEMENT*  
Fiorillo, D., Kapelan, Z., Xenochristou, M., De Paola, F., Giugni, M.  
2021
- **Short-Term Forecasting of Household Water Demand in the UK Using an Interpretable Machine Learning Approach** *JOURNAL OF WATER RESOURCES PLANNING AND MANAGEMENT*  
Xenochristou, M., Hutton, C., Hofman, J., Kapelan, Z.  
2021; 147 (4)
- **Data-Driven Modeling of Pregnancy-Related Complications.** *Trends in molecular medicine*  
Espinosa, C. n., Becker, M. n., Mari#, I. n., Wong, R. J., Shaw, G. M., Gaudilliere, B. n., Aghaeepour, N. n., Stevenson, D. K.  
2021
- **Objective Activity Parameters Track Patient-Specific Physical Recovery Trajectories After Surgery and Link With Individual Preoperative Immune States.** *Annals of surgery*  
Fallahzadeh, R., Verdonk, F., Ganio, E., Culos, A., Stanley, N., Mari#, I., Chang, A. L., Becker, M., Phongpreecha, T., Xenochristou, M., De Francesco, D., Espinosa, C., Gao, et al  
2021
- **Integration of mechanistic immunological knowledge into a machine learning pipeline improves predictions** *NATURE MACHINE INTELLIGENCE*  
Culos, A., Tsai, A. S., Stanley, N., Becker, M., Ghaemi, M. S., McIlwain, D. R., Fallahzadeh, R., Tanada, A., Nassar, H., Espinosa, C., Xenochristou, M., Ganio, E., Peterson, et al  
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- **Integration of mechanistic immunological knowledge into a machine learning pipeline improves predictions.** *Nature machine intelligence*  
Culos, A., Tsai, A. S., Stanley, N., Becker, M., Ghaemi, M. S., McIlwain, D. R., Fallahzadeh, R., Tanada, A., Nassar, H., Espinosa, C., Xenochristou, M., Ganio, E., Peterson, et al  
2020; 2 (10): 619-628
- **VoPo leverages cellular heterogeneity for predictive modeling of single-cell data.** *Nature communications*  
Stanley, N. n., Stelzer, I. A., Tsai, A. S., Fallahzadeh, R. n., Ganio, E. n., Becker, M. n., Phongpreecha, T. n., Nassar, H. n., Ghaemi, S. n., Maric, I. n., Culos, A. n., Chang, A. L., Xenochristou, et al  
2020; 11 (1): 3738
- **Multomics Characterization of Preterm Birth in Low- and Middle-Income Countries.** *JAMA network open*  
Jehan, F. n., Sazawal, S. n., Baqui, A. H., Nisar, M. I., Dhingra, U. n., Khanam, R. n., Ilyas, M. n., Dutta, A. n., Mitra, D. K., Mehmood, U. n., Deb, S. n., Mahmud, A. n., Hotwani, et al  
2020; 3 (12): e2029655