

Stanford

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Ph.D. Student in Biomedical Data Science, admitted Autumn 2020

Publications

PUBLICATIONS

- **Whole genome deconvolution unveils Alzheimer's resilient epigenetic signature.** *Nature communications*
Berson, E., Sreenivas, A., Phongpreecha, T., Perna, A., Grandi, F. C., Xue, L., Ravindra, N. G., PayrovNaziri, N., Mataraso, S., Kim, Y., Espinosa, C., Chang, A. L., Becker, et al
2023; 14 (1): 4947
- **Multomic signals associated with maternal epidemiological factors contributing to preterm birth in low- and middle-income countries.** *Science advances*
Espinosa, C. A., Khan, W., Khanam, R., Das, S., Khalid, J., Pervin, J., Kasaro, M. P., Contrepois, K., Chang, A. L., Phongpreecha, T., Michael, B., Ellenberger, M., Mehmood, et al
2023; 9 (21): eade7692
- **Large-scale correlation network construction for unraveling the coordination of complex biological systems** *NATURE COMPUTATIONAL SCIENCE*
Becker, M., Nassar, H., Espinosa, C., Stelzer, I. A., Feyaerts, D., Berson, E., Bidoki, N. H., Chang, A. L., Saarunya, G., Culos, A., De Francesco, D., Fallahzadeh, R., Liu, et al
2023
- **Data-driven longitudinal characterization of neonatal health and morbidity.** *Science translational medicine*
De Francesco, D., Reiss, J. D., Roger, J., Tang, A. S., Chang, A. L., Becker, M., Phongpreecha, T., Espinosa, C., Morin, S., Berson, E., Thuraiappah, M., Le, B. L., Ravindra, et al
2023; 15 (683): eadc9854
- **Prediction of neuropathologic lesions from clinical data.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
Phongpreecha, T., Cholerton, B., Bhukari, S., Chang, A. L., De Francesco, D., Thuraiappah, M., Godrich, D., Perna, A., Becker, M. G., Ravindra, N. G., Espinosa, C., Kim, Y., Berson, et al
2023
- **Revealing the impact of lifestyle stressors on the risk of adverse pregnancy outcomes with multitask machine learning.** *Frontiers in pediatrics*
Becker, M., Dai, J., Chang, A. L., Feyaerts, D., Stelzer, I. A., Zhang, M., Berson, E., Saarunya, G., De Francesco, D., Espinosa, C., Kim, Y., Maric, I., Mataraso, et al
2022; 10: 933266
- **A longitudinal big data approach for precision health** *NATURE MEDICINE*
Rose, S., Contrepois, K., Moneghetti, K. J., Zhou, W., Mishra, T., Mataraso, S., Dagan-Rosenfeld, O., Ganz, A. B., Dunn, J., Hornburg, D., Rego, S., Perelman, D., Ahadi, et al
2019; 25 (5): 792+
- **Effect of a machine learning-based severe sepsis prediction algorithm on patient survival and hospital length of stay: a randomised clinical trial.** *BMJ open respiratory research*
Shimabukuro, D. W., Barton, C. W., Feldman, M. D., Mataraso, S. J., Das, R.
2017; 4 (1): e000234
- **Cost and mortality impact of an algorithm-driven sepsis prediction system** *JOURNAL OF MEDICAL ECONOMICS*
Calvert, J., Hoffman, J., Barton, C., Shimabukuro, D., Ries, M., Chettipally, U., Kerem, Y., Jay, M., Mataraso, S., Das, R.
2017; 20 (6): 646-651