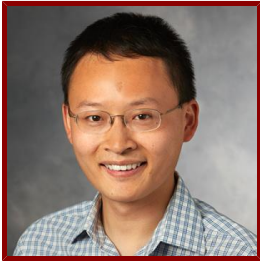


Stanford



James Zou

Assistant Professor of Biomedical Data Science and, by courtesy, of Computer Science and of Electrical Engineering

Bio

ACADEMIC APPOINTMENTS

- Assistant Professor, Biomedical Data Science
- Assistant Professor (By courtesy), Computer Science
- Assistant Professor (By courtesy), Electrical Engineering
- Member, Bio-X
- Member, Wu Tsai Neurosciences Institute

LINKS

- My website: <https://sites.google.com/site/jamesyzou/>

Teaching

COURSES

2018-19

- Deep Learning in Genomics and Biomedicine: BIODS 237, BIOMEDIN 273B, CS 273B, GENE 236 (Aut)
- Workshop in Biostatistics: BIODS 260B, STATS 260B (Win)

2017-18

- Deep Learning in Genomics and Biomedicine: BIODS 237, BIOMEDIN 273B, CS 273B, GENE 236 (Aut)
- Topics in Biomedical Data Science: Large-scale inference: BIODS 215 (Win)
- Workshop in Biostatistics: BIODS 260B, STATS 260B (Win)

2016-17

- Deep Learning in Genomics and Biomedicine: BIOMEDIN 273B, CS 273B (Aut)
- Topics in Artificial Intelligence: Algorithms of Advanced Machine Learning: CS 329M (Spr)
- Topics in Biomedical Data Science: Large-scale inference: BIODS 215 (Spr)
- Workshop in Biostatistics: BIODS 260B, STATS 260B (Win)

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Shantao Li

Doctoral Dissertation Advisor (AC)

Antonio Ginart, Zhenqin Wu

Master's Program Advisor

Anthony Carrington, Alexander Verge

Publications

PUBLICATIONS

- **A primer on deep learning in genomics.** *Nature genetics*
Zou, J., Huss, M., Abid, A., Mohammadi, P., Torkamani, A., Telenti, A.
2018
- **The clinical imperative for inclusivity: Race, ethnicity, and ancestry (REA) in genomics.** *Human mutation*
Popejoy, A. B., Ritter, D. I., Crooks, K., Currey, E., Fullerton, S. M., Hindorf, L. A., Koenig, B., Ramos, E. M., Sorokin, E. P., Wand, H., Wright, M. W., Zou, J., Gignoux, et al
2018; 39 (11): 1713–20
- **DeepTag: inferring diagnoses from veterinary clinical notes** *NPJ DIGITAL MEDICINE*
Nie, A., Zehnder, A., Page, R. L., Zhang, Y., Pineda, A., Rivas, M. A., Bustamante, C. D., Zou, J.
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- **Integrative proteomics and bioinformatic prediction enable a high-confidence apicoplast proteome in malaria parasites.** *PLoS biology*
Boucher, M. J., Ghosh, S., Zhang, L., Lal, A., Jang, S. W., Ju, A., Zhang, S., Wang, X., Ralph, S. A., Zou, J., Elias, J. E., Yeh, E.
2018; 16 (9): e2005895
- **Design AI so that it's fair** *NATURE*
Zou, J., Schiebinger, L.
2018; 559 (7714): 324–26
- **Exploring patterns enriched in a dataset with contrastive principal component analysis** *NATURE COMMUNICATIONS*
Abid, A., Zhang, M. J., Bagaria, V. K., Zou, J.
2018; 9: 2134
- **Word embeddings quantify 100 years of gender and ethnic stereotypes** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Garg, N., Schiebinger, L., Jurafsky, D., Zou, J.
2018; 115 (16): E3635–E3644
- **Diabetes reversal by inhibition of the low-molecular-weight tyrosine phosphatase** *NATURE CHEMICAL BIOLOGY*
Stanford, S. M., Aleshin, A. E., Zhang, V., Ardecky, R. J., Hedrick, M. P., Zou, J., Ganji, S. R., Bliss, M. R., Yamamoto, F., Bobkov, A. A., Kiselar, J., Liu, Y., Cadwell, et al
2017; 13 (6): 624–?
- **Correcting for cell-type heterogeneity in DNA methylation: a comprehensive evaluation.** *Nature methods*
Rahmani, E., Zaitlen, N., Baran, Y., Eng, C., Hu, D., Galanter, J., Oh, S., Burchard, E. G., Eskin, E., Zou, J., Halperin, E.
2017; 14 (3): 218–219
- **Quantifying unobserved protein-coding variants in human populations provides a roadmap for large-scale sequencing projects.** *Nature communications*
Zou, J., Valiant, G., Valiant, P., Karczewski, K., Chan, S. O., Samocha, K., Lek, M., Sunyaev, S., Daly, M., MacArthur, D. G.
2016; 7: 13293–?
- **Limits on Active to Sterile Neutrino Oscillations from Disappearance Searches in the MINOS, Daya Bay, and Bugey-3 Experiments** *PHYSICAL REVIEW LETTERS*
Adamson, P., An, F. P., Anghel, I., Aurisano, A., Balantekin, A. B., Band, H. R., Barr, G., Bishai, M., Blake, A., Blyth, S., Bock, G. J., Bogert, D., Cao, et al
2016; 117 (15)
- **Hierarchical Patterning of Multifunctional Conducting Polymer Nanoparticles as a Bionic Platform for Topographic Contact Guidance** *ACS NANO*
Ho, D., Zou, J., Chen, X., Munshi, A., Smith, N. M., Agarwal, V., Hodgetts, S. I., Plant, G. W., Bakker, A. J., Harvey, A. R., Luzinov, I., Iyer, K. S.
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- **Endovascular Repair With the Chimney Technique for Stanford Type B Aortic Dissection Involving Right-Sided Arch With Mirror Image Branching** *JOURNAL OF ENDOVASCULAR THERAPY*
Ma, H., Yang, H., Xu, W., Zou, J., Jiang, J., Jiao, Y., Zhang, X.
2013; 20 (3): 283-288
- **Conversion of Human Fibroblasts to Functional Endothelial Cells by Defined Factors** *ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY*
Li, J., Huang, N. F., Zou, J., Laurent, T. J., Lee, J. C., Okogbaa, J., Cooke, J. P., Ding, S.
2013; 33 (6): 1366-?
- **Amino Acid Homeostasis Modulates Salicylic Acid-Associated Redox Status and Defense Responses in Arabidopsis** *PLANT CELL*
Liu, G., Ji, Y., Bhuiyan, N. H., Pilot, G., Selvaraj, G., Zou, J., Wei, Y.
2010; 22 (11): 3845-3863
- **Alcoholic neurobiology: Changes in dependence and recovery** *12th International Congress of the International-Society-for-Biomedical-Research-on-Alcoholism*
Crews, F. T., Buckley, T., Dodd, P. R., Ende, G., Foley, N., Harper, C., He, J., Innes, D., Loh, E. W., Pfefferbaum, A., Zou, J., SULLIVAN, E. V.
WILEY-BLACKWELL.2005: 1504-13
- **ANTI-IL-6 MONOCLONAL-ANTIBODIES PROTECT AGAINST LETHAL ESCHERICHIA-COLI INFECTION AND LETHAL TUMOR-NECROSIS-FACTOR-ALPHA CHALLENGE IN MICE** *JOURNAL OF IMMUNOLOGY*
STARNES, H. F., PEARCE, M. K., Tewari, A., Yim, J. H., Zou, J. C., Abrams, J. S.
1990; 145 (12): 4185-4191