

# Stanford

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## Laurel Stell

Research Engineer, Biomedical Data Science

### Bio

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#### BIO

Extensive experience in statistical modelling, inference, and multiple hypothesis testing by analyzing various types of data, including genomic and gene expression data.

#### CURRENT ROLE AT STANFORD

Primarily collaborating with VA researchers on GWAS using MVP data. Also providing statistical support to some Stanford clinicians conducting investigational research.

#### EDUCATION AND CERTIFICATIONS

- MS, Stanford University , Statistics (2014)
- MS & PhD, Cornell University , Applied Mathematics (1993)
- BS, New Mexico Institute of Mining & Technology , Mathematics (1985)

### Publications

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#### PUBLICATIONS

- **Referral patterns for infantile cataracts in two regions of the United States.** *Journal of AAPOS : the official publication of the American Association for Pediatric Ophthalmology and Strabismus*  
Huang, L. C., Kumar, P., Fredrick, D. R., Alcorn, D. M., Koo, E. B., Stell, L., Lambert, S. R.  
1800
- **Implicit Bias and the Association of Redaction of Identifiers With Residency Application Screening Scores.** *JAMA ophthalmology*  
Pershing, S., Stell, L., Fisher, A. C., Goldberg, J. L.  
2021
- **Immunoprofiling of Nonarteritic Anterior Ischemic Optic Neuropathy.** *Translational vision science & technology*  
Mesentier-Louro, L. A., Stell, L., Yan, Y., Montague, A. A., de Jesus Perez, V., Liao, Y. J.  
2021; 10 (8): 17
- **Topographic Quadrant Analysis of Peripapillary Superficial Microvasculature in Optic Disc Drusen** *FRONTIERS IN NEUROLOGY*  
Yan, Y., Zhou, X., Chu, Z., Stell, L., Shariati, M., Wang, R. K., Liao, Y.  
2021; 12: 666359
- **Hypoxia-induced inflammation: Profiling the first 24-hour posthypoxic plasma and central nervous system changes.** *PloS one*  
Mesentier-Louro, L. A., Rangel, B. n., Stell, L. n., Shariati, M. A., Dalal, R. n., Nathan, A. n., Yuan, K. n., de Jesus Perez, V. n., Liao, Y. J.  
2021; 16 (3): e0246681

- **Phase 1b randomized controlled study of short course topical recombinant human nerve growth factor (rhNGF) for neuroenhancement in glaucoma: safety, tolerability and efficacy measure outcomes.** *American journal of ophthalmology*  
Gala, B., Laurel, S., Sohail, H. M., Mariana, N., Lilia, P., Bac T, N., Sylvia L, G., Amy, D., Zhongqiu, L., Melissa, A., Tom, K., Sophia Y, W., Robert, et al  
2021
- **Corneal Light Scatter After Ultrathin Descemet Stripping Automated Endothelial Keratoplasty Versus Descemet Membrane Endothelial Keratoplasty in Descemet Endothelial Thickness Comparison Trial: A Randomized Controlled Trial.** *Cornea*  
Hirabayashi, K. E., Chamberlain, W., Rose-Nussbaumer, J., Austin, A., Stell, L., Lin, C. C.  
2020
- **Vision loss in optic disc drusen correlates with increased macular vessel diameter and flux and reduced peripapillary vascular density.** *American journal of ophthalmology*  
Yan, Y. n., Zhou, X. n., Chu, Z. n., Stell, L. n., Shariati, M. A., Wang, R. K., Liao, Y. J.  
2020
- **Exome sequencing of Finnish isolates enhances rare-variant association power.** *Nature*  
Locke, A. E., Steinberg, K. M., Chiang, C. W., Service, S. K., Havulinna, A. S., Stell, L., Pirinen, M., Abel, H. J., Chiang, C. C., Fulton, R. S., Jackson, A. U., Kang, C. J., Kanchi, et al  
2019
- **Multiregion Quantification of Extracellular Signal-regulated Kinase Activity in Renal Cell Carcinoma.** *European urology oncology*  
Hoerner, C. R., Massoudi, R., Metzner, T. J., Stell, L., O'Rourke, J. J., Kong, C. S., Liliental, J. E., Brooks, J. D., Sabatti, C., Leppert, J. T., Fan, A. C.  
2018
- **Exposure to NO<sub>2</sub>, CO, and PM<sub>2.5</sub> is linked to regional DNA methylation differences in asthma** *CLINICAL EPIGENETICS*  
Prunicki, M., Stell, L., Dinakarbandian, D., de Planell-Saguer, M., Lucas, R. W., Hammond, S., Balmes, J. R., Zhou, X., Paglino, T., Sabatti, C., Miller, R. L., Nadeau, K. C.  
2018; 10: 2
- **Genetic Variant Selection: Learning Across Traits and Sites** *GENETICS*  
Stell, L., Sabatti, C.  
2016; 202 (2): 439-?