



## Samuel King

Ph.D. Student in Bioengineering, admitted Autumn 2023

### Bio

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#### EDUCATION AND CERTIFICATIONS

- Master of Science, Stanford University , BIOE-MS (2025)
- B.Sc., University of British Columbia , Hons. Biology (2022)

### Publications

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#### PUBLICATIONS

- **Genome modelling and design across all domains of life with Evo 2.** *Nature*  
Brix, G., Durrant, M. G., Ku, J., Naghipourfar, M., Poli, M., Sun, G., Brockman, G., Chang, D., Fanton, A., Gonzalez, G. A., King, S. H., Li, D. B., Merchant, et al  
2026
- **Semantic design of functional de novo genes from a genomic language model.** *Nature*  
Merchant, A. T., King, S. H., Nguyen, E., Hie, B. L.  
2025
- **A multi-kingdom genetic barcoding system for precise clone isolation.** *Nature biotechnology*  
Ishiguro, S., Ishida, K., Sakata, R. C., Ichiraku, M., Takimoto, R., Yogo, R., Kijima, Y., Mori, H., Tanaka, M., King, S., Tarumoto, S., Tsujimura, T., Bashth, et al  
2025
- **Sequence modeling and design from molecular to genome scale with Evo.** *Science (New York, N.Y.)*  
Nguyen, E., Poli, M., Durrant, M. G., Kang, B., Katrekar, D., Li, D. B., Bartie, L. J., Thomas, A. W., King, S. H., Brix, G., Sullivan, J., Ng, M. Y., Lewis, et al  
2024; 386 (6723): eado9336
- **Spatiotemporal modeling of molecular holograms.** *Cell*  
Qiu, X., Zhu, D. Y., Lu, Y., Yao, J., Jing, Z., Min, K. H., Cheng, M., Pan, H., Zuo, L., King, S., Fang, Q., Zheng, H., Wang, et al  
2024
- **Forecasting SARS-CoV-2 spike protein evolution from small data by deep learning and regression.** *Frontiers in systems biology*  
King, S., Chen, X. E., Ng, S. W., Rostin, K., Hahn, S. V., Roberts, T., Schwab, J. C., Sekhon, P., Kagieva, M., Reilly, T., Qi, R. C., Salman, P., Hong, et al  
2024; 4: 1284668
- **Forecasting SARS-CoV-2 spike protein evolution from small data by deep learning and regression** *Frontiers in Systems Biology*  
King, S., Chen, X. E., Ng, S. W., Rostin, K., Hahn, S. V., Roberts, T., Schwab, J. C., Sekhon, P., Kagieva, M., Reilly, T., Qi, R., Salman, P., Hong, et al  
2024; 4
- **DNA-GPS: A theoretical framework for optics-free spatial genomics and synthesis of current methods.** *Cell systems*  
Greenstreet, L., Afanassiev, A., Kijima, Y., Heitz, M., Ishiguro, S., King, S., Yachie, N., Schiebinger, G.

2023

- **Young innovators and the bioeconomy** *Genomics and the Global Bioeconomy*  
Chen, X. E., King, S., Ng, S. W., Salman, P., Schwab, J. C., Sekhon, P.  
Academic Press.2023; 1st: 83-100
- **Subcellular coordination of plant cell wall synthesis** *DEVELOPMENTAL CELL*  
Hoffmann, N., King, S., Samuels, A., McFarlane, H. E.  
2021; 56 (7): 933-948