

Jeremy Li

Summary	Research scientist and engineer with 9+ years' experience developing novel statistical and ML methods for high-stakes biological applications across the product lifecycle from ideation to large-scale deployment. Track record of translating applied research to product value while working closely with wet-lab, product, and executive teams. Experience in developing novel computational biology evaluations for agentic AI systems.
Experience	<p>OpenAI 02/2026 – present <i>Research Consultant</i></p> <ul style="list-style-type: none">Developing novel evaluation methods for agentic AI systems in scientific research contexts and agentic optimization of widely used scientific computing libraries <p>Herasight 01/2025 – present <i>Staff Research Engineer</i></p> <ul style="list-style-type: none">Developed and deployed a novel MCMC-based Bayesian imputation method enabling accurate polygenic embryo screening from ultra-sparse genetic data routinely generated during IVF, obviating the need for specialized wet-lab assaysDeveloped a novel dynamic programming algorithm for haplotype inference by unifying genetic data from multimodal sources, reducing error rates by > 50% compared to the state of the art <p>Gencove 10/2021 – 12/2024 <i>Director of Research</i> <i>Research Engineer; Senior Research Engineer</i> 02/2019 – 10/2021</p> <ul style="list-style-type: none">Led research team of 7 PhD scientists and worked closely with the assay development team to develop novel methods/assays for generation and analysis of sparse genomic data across humans and agriculturally relevant species, resulting in enterprise deals worth > \$3M with clinical genetics and animal breeding companiesSpearheaded initiative to replace high-overhead expert statistical models for complex genotypes with CNNs (PyTorch), reducing required expert model-tuning time by >30%Designed, implemented, and maintained genomics pipelines processing petabytes of genomic data annually in a high-throughput AWS environment, decreasing compute costs by > \$100k per year <p>Genomic Prediction 07/2017 – 02/2019 <i>Research Scientist</i></p> <ul style="list-style-type: none">Worked closely with the lab team to develop and validate assays for the first commercially available polygenic embryo screening product; main contributor to the core analysis pipeline for polygenic screening, resulting in >200 screened embryos
Selected Publications	<p>Li et al. (2025) “ImputePGTA: accurate embryo genotyping and polygenic scoring from ultra-low-pass sequencing.” doi.org/10.1101/2025.11.07.25339763</p> <p>Wolfram et al. (2025) “Within-family validation of a new polygenic predictor of general cognitive ability.” doi.org/10.31234/osf.io/jfhtu_v2</p> <p>Li et al. (2019) “Time-dependent saddle node bifurcation: Breaking time and the point of no return in a non-autonomous model of critical transitions.” doi.org/10.1016/j.physd.2019.02.005</p>
Education	University of Washington: B.S., Physics & B.A., Chemistry 2013 – 2017