

# Adam Youlin He

## Curriculum Vitae

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### Skills

- Biology Genomics and transcriptomics
- Data preprocessing (trimming, QC, alignment), peak calling, visualization, differential analysis
  - Experience with transcriptomics (mRNA-seq, CAGE-seq, PRO-seq), ATAC/DNase-seq, ChIP-seq, variant calling and imputation.
- Statistical genetics (GWAS, polygenic scores, QTL mapping, fine-mapping).
- ML classical machine learning methods (random forests, gradient boosting, support vector machines), deep neural networks (CNNs, transformers)
- Programming Python, R, Bash scripting, Git/Github

### Work Experience

- 2026– **Postdoctoral Scholar**, *Department of Genetics, Stanford University School of Medicine.*  
*Advisor: Anshul Kundaje*
- 2022 **Medical Affairs Intern**, *Regeneron Pharmaceuticals, Inc..*  
Developed and interpreted survival models to identify predictors of immune checkpoint inhibitor therapy outcomes.

### Education

- 2019–2025 **Ph.D.**, *Computational Biology, Cornell University.*  
Dissertation: Single nucleotide resolution modeling of transcription initiation. *Advisor: Charles Danko*
- 2013–2017 **B.A.** *Biology and Mathematics (double major), Pomona College*

### Publications

- 2026 **A. Y. He** and C. G. Danko. Dissection of core promoter syntax through single nucleotide resolution modeling of transcription initiation. *Nat. Genet.* (In press). Preprint: doi:10.1101/2024.03.13.583868
- 2025 K. Jiang, E. K. Haley, G. Barshad, **A. Y. He**, A. Rogic, E. Rice, M. Sudman, S. D. Thompson, C. G. Danko, J. Jarvis. Functional and computational interrogation of the juvenile idiopathic arthritis risk loci identifies candidate causal SNPs and target genes in CD4+ T cells. *medRxiv* doi:10.64898/2025.12.15.25342296
- 2025 R. J. Acosta, D. A. G. McIntyre, J. C. Murray, V. Anagnostou, J. R. Brahmer, T. Sims, G. A. Daniels, A. Meisel, A. Sezer, M. Gogishvili, T. Melkadze, A. Baramidze, T. Makharadze, **A. Y. He**, V. Jankovic, G. Geba, A. Pillai, F. Seebach, P. Rietschel, G. Gullo, J. Pouliot, and Y. Kim. Peripheral myeloid and lymphocytic cells as prognostic markers in patients with non-small cell lung cancer treated with cemiplimab: a pooled analysis of the EMPOWER-Lung 1 and EMPOWER-Lung 3 trials, *Cancer Treat. Res. Commun.* doi:10.1016/j.ctarc.2025.100959.
- 2024 **A. Y. He**, N. P. Palamuttam and C. G. Danko. Training deep learning models on personalized genomic sequences improves variant effect prediction. *BioRxiv.* doi:10.1101/2024.10.15.618510

- 2024 E. K. Haley, G. Barshad, **A. Y. He**, E. J. Rice, M. Sudman, S. D. Thompson, E. A. Crinzi, K. Jiang, C. G. Danko, and J. N. Jarvis. Using functional genomic data in monocytes/macrophages and genotyping to nominate disease-driving single nucleotide polymorphisms in juvenile idiopathic arthritis. *BioRxiv*. doi:10.1101/2024.08.19.608312
- 2019 E. Flapan, **A. Y. He**, and H. Wong. Topological descriptions of protein folding. *Proc. Natl. Acad. Sci. U.S.A.* doi:10.1073/pnas.1808312116.
- 2018 R. Mooney, A. A. Majid, D. Mota, S. Aramburo, **A. Y. He**, J. Covello-Batalla, D. Machado, J. Gonzaga, L. Flores, and K. S. Aboody. *Bcl-2* overexpression improves survival and efficacy of neural stem cell-mediated enzyme prodrug therapy. *Stem Cells Int.* doi:10.1155/2018/7047496.

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## Talks

- 2023 Mechanisms of Eukaryotic Transcription, Cold Spring Harbor, NY.
- 2018 American Mathematical Society Spring Eastern Sectional Meeting, Boston, MA.
- 2017 Southeastern Undergraduate Mathematics Workshop, Atlanta, GA.

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## Posters

- 2025 American Society of Human Genetics, Boston, MA. Reviewer's Choice Award (top 10% of posters).
- 2024 Machine Learning in Computational Biology, Seattle, WA. Selected for spotlight (top 20% of posters).
- 2022 Systems Biology: Global Regulation of Gene Expression, Cold Spring Harbor, NY.
- 2020 American Society of Human Genetics, Virtual. Reviewer's Choice Award (top 10% of posters).
- 2019 8th Human Genetics in NYC Conference, New York City, NY.
- 2017 Joint Mathematics Meetings, Atlanta, GA.

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## Awards & Grants

- 2025 **Andrew Kligerman Fund Travel Award**, *College of Veterinary Medicine, Cornell University.*
- 2021–2022 **NICHD T32 Training Grant**, *Center for Vertebrate Genomics, Cornell University.*
- 2016 **Undergraduate Student Travel Grant**, *Mathematical Association of America.*
- 2015 **HHMI Summer Research Fellowship.**
- 2014 **Jaeger Mathematics Prize**, *Pomona College.*