

ELAINE HUANG

Bioinformatics PhD Candidate
National Science Foundation Fellow

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EDUCATION AND WORK EXPERIENCE

2020 - Present	University of California, Los Angeles Bioinformatics Interdepartmental PhD Program	Los Angeles, CA
2019 - 2020	University of California, Los Angeles Lab Assistant I, Department of Integrative Biology and Physiology	Los Angeles, CA
2015 - 2019	Lafayette College B.S./Neuroscience/B.A. Philosophy (GPA: 3.91/4.00)	Easton, PA

PUBLICATIONS

Huang E, Fu T, Zhang L, Yan G, Yamamoto R, Terrazas S, Nguyen T, Gonzalez-Figueroa C, Khanbabaei A, Bahn J, Varada R, Amoah K, Hervoso J, Paulsen MT, Magnuson B, Ljungman M, Li J, Xiao X. "Genetic variants affecting RNA stability influence complex traits and disease risk." *Nature Genetics*. 57, 2578–2588 (2025).

- Press coverage in [UCLA Newsroom](#), [EurekAlert!](#), and [Technology Networks](#).

Huang E, Bahn J, Varada R, Gonzalez-Figueroa C, Wang S, Xiao X. "Inferring RNA kinetics from steady-state data via endogenous editing timestamps." Manuscript submitted.

Huang E, Fu T, Hervoso J, Xiao X. "Immunogenic dsRNAs in Alzheimer's Disease." Manuscript in preparation.

Yamamoto R, Fu T, **Huang E**, Fraser A, Mohammad N, Xiao X. "Cell-Type-Resolved Isoform Atlas of Human Tissues Reveals Age and Alzheimer's Disease-Associated Splicing Changes." Manuscript submitted.

Huang E, Frydman C, Xiao X. "Navigating the landscape of epitranscriptomics and host immunity." *Genome Research*. (2024): 34(4).

Liu Z, Quinones-Valdez G, Fu T, **Huang E**, Choudhury M, Reese F, Mortazavi A, Xiao X. "L-GIREMI uncovers RNA editing sites in long-read RNA-seq." *Genome Biology*. (2023): 24(171).

Guo L, Bloom JS, Sykes S, **Huang E**, Kashif Z, Pham E, Ho Katarina, Alcaraz A, Xiao X, Duarte-Vogel S, and Kruglyak L. "Genetics of white color and iridophoroma in Lemon Frost leopard geckos." *PLOS Genetics*. (2021) 17(6): e1009580.

Katsanis SK, **Huang E**, Grant V, Warner E, Young A, Larson S, and Wagner JK. "Caring for trafficked and unidentified patients in the EHR shadows: Shining a light by sharing the data." *PLOS One*. (2019) 14(3): e0213766.

Seacrist T, Douglas EC, **Huang E**, Megariotis J, Prabahar A, Kashem A, Elzarka A, Haber L, MacKinney T, and Loeb H. "Analysis of Near Crashes Among Novice Teen, Young Adult, and Experienced Adult Drivers Using the SHRP2 Naturalistic Driving Study." *Traffic Injury Prevention*. (2018) 18(sup 1): S89-S96.

Huang E and Wagner JK. "The Indefinite 'Stay' on Regulatory Reforms for Research with Prisoners." *The American Journal of Bioethics*. (2017) 17(7): 1-3.

Huang E, Cauley J, and Wagner JK. "Barred from better medicine? Reexamining the regulatory barriers to the inclusion of prisoners in research." *Journal of Law and Biosciences*. (2017) 4(1): 159-174.

AWARDS AND HONORS

2022-2027	National Science Foundation (NSF) Graduate Research Fellowship
2022	NIH Genomic Analysis Training Program (GATP) Grant Awardee (offer declined)
2020-2021	Eugene V. Cota-Robles Fellowship (UCLA)
2020-2021	Graduate Dean's Scholar Award (UCLA)
2015-2019	Marquis Scholarship (Lafayette College)
2019	William Rappolt '67 and Walter Oechsle '57 Neuroscience Prize (Lafayette College)

PRESENTATIONS

Oral Presentations

2025 Epigenomics, RNA, and Gene Regulation Data and Journal Club, UCLA.

2024 American Society of Human Genetics Annual Meeting (platform talk).

Riboforum Seminar, UCLA.

Quantitative and Computational Biology Retreat, UCLA (selected talk).

Poster Presentations

2025 Gordon Research Conference, Biological Mechanisms and Applications of RNA Editing and Modifications.

UAW Science Fair for Cancelled Research.

2023 American Society of Human Genetics Annual Meeting.

TEACHING EXPERIENCE

Teaching Assistant for PHYSCI-125 (Molecular Systems Biology) (Spring Quarter 2024). Lectured, held discussions, wrote and graded exams on topics in various -omics fields and high-throughput technologies, bioinformatic tools, and systems biology modeling.

Graduate student mentor for first-year rotation students:

- Lena Krockenberger (Bioinformatics PhD Student; Fall Quarter 2022)
- Anna Fraser (Molecular Biology PhD Student; Winter Quarter 2023)
- Juliana Shin (Genetics & Genomics PhD Student; Spring Quarter 2023)
- Natalia Garcia Dutton (Genetics & Genomics PhD Student; Winter Quarter 2024)

SERVICE

- Kenneth Hahn State Park Volunteer (2025-Present)
- UCLA QBio-EDGE Student Volunteer (2021-2022, 2025)
- American Society of Human Genetics (ASHG) DNA Day Essay Content Judge (2025)
- UCLA Bioinformatics Annual Retreat Planning Committee (2023-2024)
- UCLA Bioinformatics Student Representative (2021-2023)

REFERENCES

Xinshu (Grace) Xiao

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