

Qile Yang | *Curriculum Vitae*

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Education

- 2023-27* **B.A.** Computer Science, *University of California, Berkeley*
B.A. Data Science
Minor Bio-Engineering
- 2022 **SAT Score:** 1510/1600
- 2020-23 **IB Diploma**, HL Math AA + Biology + Chemistry, *International English Gymnasium Sodermalm*

Research Experience

- 2025– Researcher, Yun S. Song Lab, University of California, Berkeley.
- 2024 Bioinformatics engineer and researcher, Generation Lab Inc.
- 2023– Research assistant and Bioinformatician, Conboy Lab, University of California, Berkeley.
- 2023 Researcher, Hallucinating Scaffolds team, [iGEM at Berkeley](#).
- 2023– Method developer, scRepertoire, Washington University in St. Louis. (Advisor: [Nicholas Borcharding](#))
- 2023 Researcher and method developer, Sahlin Group, Stockholm University. (Advisor: [Kristoffer Sahlin](#))
- 2022-23 Research assistant, [Karlsson-Hedestam/Murrell Lab](#), Karolinska Institute. (Advisor: [Benjamin Murrell](#))

Awards & Honors

- 2023 Finalist, National Swedish Research fair (1/55 projects)
- 2023 Top 60, National Swedish Programming Olympiad Site
- 2022 Top 115, National Swedish Chemistry Olympiad (Fully Swedish)
- 2022 Double Admit to Karolinska Institute’s summer research programs (1/5 admitted nationwide)
- 2022 Top school participant, Swedish Biology Olympiad (Fully Swedish)
- 2023 PostHS scholarship recipient, Equitable College Counselling
- 2022-23 Swedish National Debate Team member (5 national debating awards)

*Expected.

Publications

Journal Articles

- J1. **Yang Qile**. APackOfTheClones: Visualization of clonal expansion with circle packing. *Journal of Open Source Software* **9**, 6868. <https://doi.org/10.21105/joss.06868> (2024).

Working papers

- W1. Cruz, J. M., Alzalzalee, R., Yeung, H., **Yang, Qile**, Mahmood, Z., Conboy, M. J. & Conboy, I. M. *Therapeutic Plasma Exchange as treatment for myocardial infarction* Manuscript Under Preparation. 2025.
- W2. Cruz, J. M., Yeung, H., Alzalzalee, R., **Yang, Qile**, Kabir, H., McDonough, S., Mei, X., Conboy, M. J. & Conboy, I. M. *Exercise induces inflammation and fibrosis of old muscle and heart, unless Alk5 inhibitor and oxytocin are used* Manuscript Under Review. 2024.
- W3. **Yang, Qile**, Safina, K. R. & Borchering, N. scRepertoire 2: Enhanced and Efficient Toolkit for Single-Cell Immune Profiling. *bioRxiv*, 2024–12. <https://doi.org/10.1101/2024.12.31.630854> (2024).

Presentations

Posters

- P1. **Yang, Qile**, Sahlin, K. & Murrel, B. *KmerGMA: A seed-based approach for fast homology searching* Swedish National Science Fair 2023 Finals (Sodertalje, Sweden). Apr. 2023.

Demonstrations & Tutorials

- D1. **Yang, Qile** & et al. *Final Presentation: Hallucinating Scaffolds Team* iGEM at Berkeley All Hands 3 (Berkeley CA, USA). Dec. 2023.
- D2. **Yang, Qile** & Murrel, B. *Discovery of Novel Camelid Germline Immunoglobulin Alleles* Karolinska Institute's summer research program (SoFo) 2022 (Stockholm, Sweden). Aug. 2022. <https://github.com/Qile0317/SoFoCompBio22/blob/main/FinalPresentation.pptx>.

Projects

- X1. **Yang, Qile**. *Characterization of a highschool's microbiome* IB Diploma Final project. 2022.

Last updated: January 10, 2025