

Qile Yang | *Curriculum Vitae*

qile [dot] yang [at] berkeley [dot] edu



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

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, (Advisor: [Nicholas Borcharding](#))
2023 Researcher and method developer, Sahlin Group (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)

Publications

Journal Articles

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

*Expected.

Working papers

- W1. Cruz, J. M., Yeung, H., Alzalzaalee, R., **Yang, Qile**, Kabir, H., McDonough, S., Mei, X., Conboy, M. & Conboy, I. *Exercise induces inflammation and fibrosis of old muscle and heart, unless Alk5 inhibitor and oxytocin are used* Under Review. 2024.
- W2. **Yang, Qile** & Borcharding, N. *scRepertoire 2.0: Enhanced and Efficient Toolkit for Single-Cell Immune Profiling* Manuscript in preparation. 2023. <https://www.borch.dev/uploads/sc repertoire/>.

Presentations

Posters

- P1. **Qile, Yang**, 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. **Qile, Yang** & et al. *Final Presentation: Hallucinating Scaffolds Team* iGEM at Berkeley All Hands 3 (Berkeley CA, USA). Dec. 2023.
- D2. **Qile, Yang** & Murrel, B. *Discovery of Novel Camelid Germline Immunoglobulin Alleles* Karolinska Institute's summer resarch program (SoFo) 2022 (Stockholm, Sweden). Aug. 2022. <https://github.com/Qile0317/SoFoCompBio22/blob/main/FinalPresentation.pptx>.

Projects

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

Last updated: December 3, 2024