

# 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

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).

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\*Expected.

## 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. 2024.
- 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* Under Review. 2024.
- W3. **Yang, Qile**, Safina, K. R. & Borcharding, N. scRepertoire 2: Enhanced and Efficient Toolkit for Single-Cell Immune Profiling. *bioRxiv*, 2024–12 (2024).

## 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 research 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.

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