

Qile Yang | *Curriculum Vitae*

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Education

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

Research Experience

2025–	Researcher, Yun S. Song Lab, University of California, Berkeley.
2024	Bioinformatics engineer, Generation Lab Inc.
2023–	Research assistant and Bioinformatician, Conboy Lab, University of California, Berkeley.
2023	Researcher, Hallucinating Scaffolds team, iGEM at Berkeley .
2023–	Immunoinformatics and ML Researcher, Washington University in St. Louis. (Advisor: Nicholas Borcharding)
2023	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).

Preprints

- B1. **Yang, Qile**, Safina, K. R. & Borcharding, 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).

Working papers

- W1. Cruz, J. M., Alzalzalee, R., Yeung, H., Mahmood, Z., **Yang, Qile**, Morshedian, N., Conboy, M. J., Mazahery, A. R., Nevado, J. B. & Conboy, I. M. *Plasma dilution promotes cardiac repair after 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.

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: February 18, 2025