

Qile Yang | *Curriculum Vitae*

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Education

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| 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

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| 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

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| 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. **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).

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. & 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. **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.

Last updated: January 9, 2025