

# Lee Jia Qi

🏠 Singapore, Sweden   ✉️ jiaqileee@gmail.com   in Lee Jia Qi

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## 👤 About

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A PhD student with a strong passion for scientific research and academia. I am committed to advancing our understanding of the human immune system, believing that these advances can unlock transformative healthcare for all.

## 🎓 Education

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### **Nanyang Technological University**

Aug 2020 – Jul 2024

*Bachelor of Science in Biological Sciences with Honours (Highest Distinction)*

Singapore

*Scholar under CN Yang Scholars Programme (CNYSP)*

*CGPA: 4.81/5.00*

*Completed courses comprising a total of 142 NTU Academic Units*

*Conducted my Honours Year Thesis at Karolinska Institutet, Stockholm, Sweden*

*Concluded an international semestral exchange at University of Glasgow, Scotland, UK*

### **Nanyang Junior College**

Jan 2016 – Dec 2017

*Singapore-Cambridge General Certificate of Education Advanced Level*

Singapore

*Subjects: H2 Biology (A), H2 Chemistry (A), H2 Mathematics (A), H2 Economics (A), H1*

*General Paper (A), H1 Project Work (A)*

## 👜 Work Experience

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### **Department of Laboratory Medicine, Karolinska Institutet**

Research Assistant

Sep 2024 – Present

PI: Associate Professor Annika C. Karlsson

- Utilising computational methods to perform high-dimensional analysis of full spectrum flow cytometry data
- Experienced in designing biological studies investigating human T cells
- Assist with logistical and administrative tasks in the group and division
- Proficient in R, FlowJo and advanced data analysis

Student Researcher

Aug 2023 – May 2024

PI: Associate Professor Annika C. Karlsson; Mentor: Ms Anna Olofsson

- Designed, optimised, and validated a high-parameter activation-induced full spectrum flow cytometry panel to analyse T cells in viral infections
- Analysed human blood samples from a study cohort using the full spectrum flow cytometry panel
- Proficient in FlowJo, full spectrum flow cytometry, cell culture, peptide stimulation and data analysis

### **Asian School of the Environment, Nanyang Technological University**

Student Researcher

Jul 2022 – Jul 2023

PI: Associate Professor Federico M. Lauro; Mentor: Dr Nur Hazimah Mohamed Nor

- Designed and optimised a protocol to analyse bio-fouled microplastics in Southeast Asia coasts
- Proficient in techniques such as fieldwork sampling, bacterial work, Micro-FTIR and flow cytometry

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## Lee Kong Chian School of Medicine, Nanyang Technological University

Student Researcher

*Aug 2021 – Jul 2022*

PI: Associate Professor Andrew Tan Nguan Soon; Mentor: Dr Cheng Hong Sheng

- Optimised protocols used for screening pathogenesis of liver samples and adoptive transfer of immune cells
- Analysed liver samples from our animal model to understand the disease progression of metabolic dysfunction-associated steatotic liver disease
- Proficient in techniques such as histology, immunohistochemistry staining, microscopy, hepatic lipid extraction and quantification, flow cytometry, animal work, qPCR, Western blot and cell culture

Student Researcher

*Dec 2020 – Aug 2021*

PI: Associate Professor Andrew Tan Nguan Soon; Mentor: Dr Jeannie Lee Xue Ting

- Developed an assay to sieve out potential kinases that are involved in metastasis
- Analysed images of cell cultures to understand metastatic spread in the assay
- Proficient in techniques such as cell culture, RNA extraction, qPCR, transfection and drug administration

## A\*STAR - Agency for Science, Technology and Research

Intern

*Jan 2020 – Apr 2020*

Supervisor: Dr Lu Hongfang

- Designed and optimised a categorisation method of useful microbes to be developed as bio-fertilisers
- Trained in techniques such as cell culture, microscopy, bacterial work and seed treatment

## Singapore Armed Forces

National Serviceman, Specialist, Armour Infantry Gunnery Trainer

*Jan 2018 – Nov 2019*

- Planned and developed course syllabi and materials
- Led and mentored five batches of servicemen on relevant gunnery systems

## 📄 Publications

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1. Lee JXT, Tan WR, Low ZS, **Lee JQ**, Chua D, Yeo WDC, See B, Vos MIG, Yasuda T, Nomura S, Cheng HS, Tan NS, *YWHAG* deficiency disrupts the EMT-associated network to induce oxidative cell death and prevent metastasis, *Adv. Sci.* 2023, 2301714, DOI: <https://doi.org/10.1002/advs.202301714>
2. Low ZS, Chua D, Cheng HS, Tee R, Tan WR, Ball C, Sahib NBE, Ng SS, Qu J, Liu Y, Hong H, Cai C, Rao NCL, Wee A, Muthiah MD, Bichler Z, Mickelson B, **Lee JQ**, Kong MS, Tay VSY, Yan Z, Chen J, Ng AS, Yip YS, Vos MIG, Lim DXE, Chittechath M, Yaligar J, Verma SK, Poptani H, Guan XL, Velan SS, Ali Y, Li L, Tan NS, Wahli W: Angiopoietin-like 4 shapes the intrahepatic T-cell landscape via eIF2a signaling during steatohepatitis in diet-induced NAFLD, (*Manuscript in preparation*). (2023), DOI (preprint): 10.1101/2023.01.10.523354.

## 👥 Conferences

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1. Global Undergraduate Awards Summit 2024 (*Poster Presentation*)
2. Karolinska Inflammation and Immunology Retreat 2024 (*Poster Presentation*)
3. Nordic HIV & Virology Conference 2023 (*Attendee*)

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## ♥️ Volunteering Experience

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**National Parks Board, Singapore** Jun 2019 – Present

- Participate in volunteering sessions

**Climate Conversations Singapore, Singapore** May 2021 – May 2024

- Hosted three bespoke sessions for participants to understand more about the climate crisis

## 🌐 Co-Curricular Activities

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**CN Yang Scholars Programme, Nanyang Technological University**

*Peer Mentor*

*Jul 2021 – Aug 2023*

- Provided mentorship and guidance to CNYSP juniors in navigating undergraduate studies

**Reeling Society, University of Glasgow**

*Member*

*Jan 2023 – May 2023*

- Participated in activities and events organised by the Reeling Society

**NTreeU, Earthlink, Nanyang Technological University**

*Committee Member*

*Sep 2021 – Jan 2023*

- Participated in team discussions to lay the foundation of a campus-wide tree planting initiative
- Convinced NTU senior management on the benefits and importance of the project
- Provided directives to event volunteers and participants

**Crescent Hall Dance, Nanyang Technological University**

*Member, Performer*

*Aug 2020 – Dec 2022*

- Participated in activities, events, and performances organised by the society

**Crescent Hall 8th Council, Nanyang Technological University**

*President*

*Sep 2021 – Sep 2022*

- Set the direction of the hall and the council
- Oversaw 10 hall council portfolios to provide an enriching hall experience for 650 residents
- Liaised with school management, key stakeholders and partners to ensure smooth and enhanced operations
- Spearheaded initiatives to improve vibrancy of the hall culture
- Advisor to ad-hoc committees of the hall council
- Returning Officer for Crescent Hall Elections

**Crescent Hall 7th Council, Nanyang Technological University**

*Residential Education (Community Engagement) Director*

*Sep 2020 – Sep 2021*

- Executed a Pay-It-Forward initiative to appreciate the hall staff with more than 200 residents participating
- Collaborated with various external organisations to plan a sustainability-themed event
- Coordinated workshops and events for hall residents to learn in a fun and engaging manner

**Outdoor Adventure Club, Nanyang Technological University**

*Liaison Officer*

*Aug 2020 – Aug 2021*

- Planned an Adventure Trail Challenge to promote exploration of sub-urban areas in Singapore
- Liaised with external sponsors, partners, organisations and authorities to ensure smooth execution of the race

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## Outdoor Adventure Club, Nanyang Junior College

Secretary

Feb 2016 – May 2017

- Spearheaded activities and oversaw all administrative procedures
- Served as Secondary Project In-charge on a Youth Expedition Project to Chiang Rai, Thailand

## 🏆 Awards and Achievements

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### Global Undergraduate Awards

Sep 2024

*Thomas Clarkson Bronze Medal - Highly Commended (Medical Sciences)*

### Nanyang Technological University

Aug 2020 – Jul 2024

- CNYSP Research Award (Bronze)
- NTU President Research Scholar
- Dean's List (Academic Year 2020/2021)
- Nanyang Scholarship (CNYSP)

### Rhodes Scholarship

Nov 2023

*National Finalist for Singapore*

### Nanyang Junior College

Jan 2016 – Dec 2017

- Academic Excellence Award
- CCA Award (Individual)
- Edusave Character Award
- Edusave Good Progress Award

## ⚙️ Skills

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**Languages** Native proficiency in English and Mandarin; Elementary proficiency in Swedish

**Office Productivity** Microsoft Office, Canva, BioRender

**Programming** R, FlowJo, GraphPad Prism, ImageJ, Python, Autodesk Fusion360

**Inter-personal Skills** Leadership, Teamwork, Project Management, Stakeholder Engagement