

# YUAN LI

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## Summary

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A properly educated biologist and bioinformatician, specialised in single cell/bulk transcriptomics, (phospho)proteomics, omics integration, machine learning, reproducible research (docker, singularity, git, nextflow), R package development, fluent in R and python, excellent in scientific writing and popular science writing.

## Skills

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- ❖ (Single cell/spatial/bulk) transcriptomics
- ❖ (Phospho)proteomics
- ❖ Metabolomics
- ❖ Reproducible (git, docker, singularity, nextflow)
- ❖ ATACseq transcription factor analysis

## Experience

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| 2026      | Member of the training working group MOOC   |
| 2026      | Training alias of the NBIS-Healthclin team  |
| 2026      | Member of the BMSL parent board   |
| 2026      | Teach in NBIS scRNASeq course   |
| 2025      | Master student supervision, Dept. Immunotechnology, Lund University, Lund, Sweden.  |
| 2024-2025 | Teach single cell RNASeq in course: Omics - Analysis of large-scale biomolecular datasets, Lund university, Lund, Sweden  |
| 2003-2005 | Teaching assistant in different NBIS courses: scRNASeq, Omics integration and system biology, Data visualisation in R, Introduction to Bioinformatics using NGS data  |
| 2023-now  | Bioinformatician. NBIS, Sweden/Dept. Immunotechnology, Lund University, Lund, Sweden.   |
| 2021-2023 | Bioinformatician. Dept. Experimental Medical Sciences (neural development) & Department of Laboratory Medicine (Bone marrow/blood cancer), Lund University, Sweden.   |
| 2021      | Teaching assistant within the Bioinformatics master program, Lund University, Sweden.   |
| 2020      | Software development (for single cell RNA seq data analyses), BRIC, Copenhagen University, Demark.  |
| 2019-2020 | Vice chairman, Montessoriförskolan Lillskolan, Lund, Sweden.  |
| 2018-2020 | Postdoc in the Computational Biology and Biological Physics group (CBBP), Lund University, Sweden.  |
| 2017      | <i>Popular science writer.</i> For publications, see: <a href="http://lup.lub.lu.se/search/search/person/ekol-yal?start=&amp;limit=100&amp;sort=year.desc">http://lup.lub.lu.se/search/search/person/ekol-yal?start=&amp;limit=100&amp;sort=year.desc</a> |

2017	Reviewer (Expert's evaluation No. 557921) to one grant proposal about ecological epigenetics (registration no. 2016/23/N/NZ8/02057) at (Polish) National Science Centre ( <a href="https://osf.opi.org.pl/app/adm/start.do">https://osf.opi.org.pl/app/adm/start.do</a> ).
2015-2016	Project assistant, Department of Biology, Lund University, Sweden.
2012-2019	Regular Oral/poster presentations (in English) at international/national conferences/symposiums.
2016	Teaching assistant in <i>Terrestrial Ecology</i> , Lund University, Sweden.
2013	Regularly involved in a Prao project, which introduces scientific research to high school students, Lund University, Sweden.
2004/2006	English tutor, China

## Education

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2019-2020	Master Programme in Bioinformatics, Lund University, Sweden.
2009-2015	PhD degree (2015-06-05), Department of Biology, Lund University (201307-201408: maternal leave), Sweden.
2008-2009	Visiting student in Evolutionary Functional Genomics, Evolutionary Biology Centre, Uppsala University, Sweden.
2006-2008	Graduate student in Molecular Ecology, Key laboratory of Arid and Grassland Ecology, Ministry of Education, School of life science, Lanzhou University, China.
2002-2006	B.S. in Life Science, National Bases of Biology for the Training of Researching and Teaching personnel for Fundamental Disciplines, School of life science, Lanzhou University, China.

## Languages

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- ❖ Good command of reading, listening, writing and speaking English
- ❖ Swedish level: Grundskolan
- ❖ Mother tongue: Chinese

## Publication summary

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Have more than 30 publications (including both scientific and popular science), and more than half are in English and the majority of which are in peer-reviewed journals.

please see: <https://lup.lub.lu.se/search/search/person/ekol-yal> or <https://scholar.google.com/citations?user=aG4uxkAAAAAJ&hl=en>

## Awards and Grants

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2018-2019	Stiftelsen Olle Engkvist Byggmästare Forskningsprojekt (co-applicant)
2015	Axel Wenner-Grens Stiftelse
2013/2010	Stiftelsen Anna och Svante Murbecks minnesfond
2010	Stiftelsen Areschougska stipendiet (botaniska studier)
2009	Donationerna för naturvetenskap, medicin och teknik
2002-2006	Lanzhou University Scholarship

2004-2005	Scholarship for National Bases for the Training of Researching and Teaching Personnel for Fundamental Disciplines
2003-2004	National Scholarship
2002-2003	Student of Triple Excellence, Lanzhou University

## R packages

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Maj18/KinaseDownstream (private so far)  
Maj18/permuDE  
Maj18/parseMeta (private so far)

## Nextflow pipeline

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Maj18/nf-atacco