

# Al-Naser Al-Rais

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## EDUCATION

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### University of Cambridge

*BA in Natural Sciences*

Cambridge, UK

Oct 2024 - June 2027

- **Specialisation:** Biochemistry, Pharmacology, Computational Biology
- **Coursework:** Cell and molecular biology, protein biochemistry, drug design and pharmacodynamics, quantitative biology
- **Accomplishments:** G.R.N. Minchin Award (substantial travel grant for undergraduates); **1 of 10 worldwide** selected for research placement at TU Munich (fully funded by Max Planck Institute); Bio-Spark Exploring Fellow

## SKILLS

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**Laboratory:** droplet microfluidics (making devices, droplet generation); plasmid design and assembly; lentiviral transduction; DNA and protein purification; fluorescence microscopy; well-plate assays; gel electrophoresis

## EXPERIENCE

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### Knowles Lab, University of Cambridge

*Undergraduate Researcher*

Cambridge, UK

May, Oct 2025 - Present

- Investigating TDP-43 phase boundary in ALS/FTD using droplet microfluidics
- Developing quantitative assays to measure aggregation dynamics and identify therapeutic intervention points

### Lu Lab, Harvard Medical School

*Undergraduate Research Fellow, Systems Biology*

Boston, MA

Jun 2025 – Sep 2025

- Engineered tunable model system to study pathological protein aggregation
- Executed genetic construct design, viral transduction, fluorescent imaging and analysis independently
- Managed experimental design and timelines
- Presented findings to department faculty

## EXTRACURRICULAR ACTIVITIES

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### Cambridge Society of Ageing and Longevity Research

*[Head of undergraduate engagement]*

Jan 2026 - present

### Darwin Society (Christ's College Scientific Society)

*[Committee Member]*

June 2025 - present

- Organised high-profile speaker events and formal dinners

### British Powerlifting

*[National Competitor, 2022]*

- Ranked top 25 nationally