

Al-Naser Al-Rais

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EDUCATION

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:** raised \$10k to fund summer 2026 project in George Church's lab; 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

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

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

Boston, MA

Undergraduate Research Fellow, Systems Biology

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

Darwin Society (Christ's College Scientific Society)

[Committee Member]

Jan 2025 - present

- Organised high-profile speaker events and formal dinners

British Powerlifting

[National Competitor, 2022]

- Ranked top 25 nationally