

# Ariana Costas

She/Her

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## Education

### Doctor of Philosophy

January 2023 – January 2027

University of Technology Sydney, UTS

Institute Cochin, Paris

Australian Institute for Microbiology and Infection, Sydney

### Bachelor of Medical Science (Honours)

February 2022 – November 2022

University of Technology Sydney, UTS

Australian Institute for Microbiology and Infection (AIMI)

- First Class Honours (High Distinction)

### Bachelor of Advanced Science

May 2019 – November 2021

University of Technology Sydney, UTS

- Infection and Immunity major
- High Distinction Average (GPA 6.64/7)

## Relevant Experience

### *Doctor of Philosophy*

January 2023 – January 2027

University of Technology Sydney, UTS

Supervisors: Dr. Molly Ingersoll (Institut Cochin, Paris) and Dr. Bill Söderström (AIMI, Sydney)

Project title: Analysis of non-response to antibiotics *in vivo*: application to uropathogenic *Escherichia coli* in urinary tract infections

### *Bachelor of Medical Science (Honours)*

February 2022 – November 2022

University of Technology Sydney, UTS

Supervisor: Dr. Bill Söderström

- Project title: Roles of SPOR domain proteins during filamentation of uropathogenic *E. Coli* in model urinary tract infections
- Maintained human cell lines, *e.g.*, the immortalized human bladder epithelial cell line PD07i
- Genetically engineered UPEC strains
- Performed general laboratory tasks in bacteriology, including preparation of media, maintenance of bacteria, general aseptic technique, PCR, gel electrophoresis, genomic DNA and plasmid extraction, western blot
- Presented the work I am expected to carry out in my honour's project, demonstrating clear and effective oral communications skills, earning the top grade, a high distinction

## Public outreach and volunteering

### Fête de la Science

October 2024

- Organised a workshop for year 6 students to learn about the bladder and urinary tract infections as part of the French national science festival
- Volunteered during the institute open day engaging members of the public with science related activities

### Apprentis Chercheurs (Apprentice Researchers)

November 2023 – May 2024

- One student returning in 2025 to complete an internship under my guidance, to fulfill requirements for her high school
- Designed a scientific project to mentor a high school student and a middle school student over the academic school year

- Mentoring young students interested in science, basic microbiological and immunological techniques, while developing their knowledge of science theory using easy to understand language and simplifying complex processes

### **National Science Week Volunteer**

**August 2022**

- Explained complex scientific concepts of synthetic biology to children and adults with no scientific background
- Established interactive activities that engaged children with how synthetic biology works, initiating critical thinking and creativity

### **Student Supervision**

**Ladmia Daaoufa**, Master student, April 2025 – June 2025

**Gabrielle Raulin**, High School student, June 2025

### **Awards and Prizes**

- Franco-Australian Hubert Curien Partnership Mobility Fund 2024
- Australian Government Research Training Program Stipend 2023
- Research Training Program (RTP) Fees Offset Scholarship 2023
- Dean's Merit List for Academic Excellence in 2022 for achieving a weighted average mark of above 85 in 2022
- AIMI Excellence in Research Honours Scholarship in 2022
- Dean's Merit List for Academic Excellence in 2020 for achieving a weighted average mark of above 85 in 2020

### **Conferences**

- Presented a poster and won 'Best PhD poster' at the Faculty of Science Transdisciplinary ECR Retreat 6<sup>th</sup> of December 2024
- Presented a poster at the 5<sup>th</sup> Clinical and Scientific Advanced in Urinary Tract Infection 19-21<sup>st</sup> of July 2024
- Attended Young Researchers in Life Sciences Conference 11-13<sup>th</sup> of July 2023
- Attended Australian Society for Microbiology Conference 11-14<sup>th</sup> of July 2022

### **Oral Presentations**

17<sup>th</sup> ENII Advanced Immunology Summer School (Talk chosen from abstract)

**May 2024**

Institut Pasteur Immunology Department Retreat

**April 2024**

Institut Cochin Internal Seminar

**January 2024**

'20 PhDs 20 minutes', Triple R 102.7FM. Interviewed by Dr. Shane Huntington

**18 June 2023**

<https://www.rrr.org.au/explore/programs/einstein-a-go-go/episodes/25282-einstein-a-go-go-18-june-2023>