

# Anthony Salib *October 27 1997*

anthonysalib97@gmail.com • www.anthonysalib.com

## Academic Experience

Academic Mechanical and Electrical Engineering Association (AMIV), ETH Zürich Exam Preparation Course for Analysis III - upon invitation by AMIV	January 2022
Department of Mathematics, ETH Zürich Teaching Assistant for Analysis III	ZÜRICH, SWITZERLAND Autumn Semester, 2021
Department of Mathematics, ETH Zürich Teaching Assistant for Numerical Analysis II	ZÜRICH, SWITZERLAND Spring Semester, 2021
Department of Mathematics, ETH Zürich Teaching Assistant for Mathematics III	ZÜRICH, SWITZERLAND Autumn Semester, 2020
Mathematical Sciences Institute, Australian National University Summer Scholar	CANBERRA, AUSTRALIA November 17 – January 18
School of Physics and Astronomy, Monash University Summer Research Student	MELBOURNE, AUSTRALIA November 16 – January 17

---

## Education

ETH Zürich Mathematics MSc Advisor: Prof. Joaquim Serra. Expected Completion: March 2022	ZÜRICH, SWITZERLAND 2022
Monash University Bachelor of Science Advanced - Research (Honours) Honours Advisor: Prof. Gregoire Loeper. GPA: 3.906 • Extended Major in Mathematics • Major in Physics	MELBOURNE, AUSTRALIA 2019
Nossal High School Victorian Certificate of Education ATAR: 98.35	MELBOURNE, AUSTRALIA 2015

---

## Scholarships and Awards

Maria Athanassenas Honours Scholarship	2019
Alan Pryde Study Grant	2019
Monash Faculty of Science Deans List Award	2018
Monash Undergraduate Research Summer Scholarship	2018
Australian National University Summer Research Scholarship	2017
Monash Undergraduate Summer Research Scholarship	2016
Monash University Scholarship for Excellence and Equity	2015

---

## Research Interests

- Free Boundary problems
  - Regularity of solutions to non-linear elliptic PDE
  - Calculus of Variations, Minimal Surfaces and the Allen-Cahn Equation
-

## Unpublished Articles

Semester Paper: The Obstacle Problem	2021
Honours Thesis: Optimal Transport and Applications to Stochastic Optimal Control	2019
Introduction to General Relativity	2018
Is $\pi$ really embedded in quantum mechanics?	2017

---

## Talks

Schauder Estimates for uniformly elliptic PDE in Divergence Form STUDENT SEMINAR IN ELLIPTIC REGULARITY THEORY	2021
Free Boundary Regularity in the Classical Obstacle Problem INFORMAL STUDENT SEMINAR (CO-ORGANISED WITH FELLOW STUDENTS AT ETH)	2021
Minimal Surfaces and the De-Giorgi Conjecture ZÜRICH UNDEGRADUATE COLLOQUIUM IN MATHEMATICS AND PHYSICS (ZUCMAP)	2020
Spaces of Constant Curvature	MONASH UNIVERSITY, 2018
Black holes in General Relativity	MONASH UNIVERSITY, 2018
Finding $\pi$ in the Sky	MONASH UNIVERSITY, 2017

---

## Technical Skills

**Programming:** • Matlab • Mathematica • Python

---

## Language Skills

**Proficient:** • English  
**Intermediate:** • Arabic - Egyptian Dialect  
**Beginner:** • German - A2 Level