

Mohammad ZIRDI SYUKUR

Undergraduate Student and Researcher at Yale-NUS College

[in linkedin.com/in/m-zirdi-syukur-28a2ab1a2](https://www.linkedin.com/in/m-zirdi-syukur-28a2ab1a2) github.com/zirdisyukur
@ zirdisyukur@u.yale-nus.edu.sg
10 College Avenue West #01-101
<https://zirdisyukur.github.io>



I am a third year undergraduate student at Yale-NUS College in Singapore. I am majoring in Physical Sciences with a focus in physics. I am expecting to graduate by April 2023. I am currently most interested in astrophysics and high energy physics. Outside of physics, I make music and dance!

POSITIONS

Present	Undergraduate Student Researcher, SPECIAL POCKET RESEARCH GRANT : DIRECT-CURRENT ELECTROMAGNET FIELD SIMULATIONS/DESIGN, Yale-NUS College
December 2020	<ul style="list-style-type: none">Programming and conducting simulations of strong bias magnetic field coils intended to create uniform and specific fields that can control the variation of field strength. Coil designs are intended for use in a future quantum gas experiment with alkali atoms at Yale-NUS College.Designing and testing numerical simulations in Julia. Referencing and converting existing but limited simulations in Mathematica.Visualizing coils and their magnetic fields in a simulated environment.Documenting design process and working towards a optimal design.Supervised by Professor Ben A. Olsen <div>Julia Mathematica Python</div>
October 2020 January 2020	Undergraduate Student Researcher, BUILDING AND TESTING A RADIO TELESCOPE, Yale-NUS College <ul style="list-style-type: none">Make improvements to radio telescopeCreate back-end for telescope observations and processingObserving hydrogen line emissions from Galactic centerTesting RFI environment in Singapore and feasibility of using astronomy instrumentationSupervised by Professor Chelsea Sharon <div>Python GNURadio Unix</div>
July 2019	Intern, SCHLUMBERGER, R&D, Clamart, France <ul style="list-style-type: none">Learned about Schlumberger technology divisionUnderstood the tech development processAssigned with basic assignments using Arduino and Python <div>Arduino Python</div>

SKILLS

Proficient	Python Java (Oracle Junior Associate Certification)
Experience	Julia HTML CSS Unix shell scripting (bash) GNURadio LaTeX R
Learning	MCMC ADQL SQL

LANGUAGES

English ● ● ● ● ●
Français ● ● ● ○ ○

EDUCATION

2023	Expected, BS (Honours) in Physical Science with a focus in Physics, Yale-NUS College, Singapore
2019	High School Diploma, the American School of Paris, France

SELECTED HONOURS AND AWARDS

2019	Mark E. Ulfers Leadership Award
------	---------------------------------

TRAITS

- > Curious
- > Eager to learn
- > Persistent