

# Supakorn (Nikko) Juengsophonvitavas

45 Winram Place, St Andrews, Fife, KY16 8XH, United Kingdom

sj91@st-andrews.ac.uk|[nikko171.github.io](https://github.com/nikko171)|[linkedin.com/in/supakorn-nikko-j-988323126/](https://www.linkedin.com/in/supakorn-nikko-j-988323126/)+44 7312 639 869

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## Education

### Astrophysics Integrated Masters (Hons) | University of St Andrews - Scotland

September 2020 - Present | Masters in Astrophysics

1st Year Average 17.7, 2nd Year Average 17.5, 3rd Year 1st Semester Average 15.5 on the University's non-linear 20 mark scale, on track to receiving an upper second.

Notable Modules Taken: Astronomy and Astrophysics 1 & 2, Computational Astrophysics, Extragalactic Astronomy, Physics 2A 2B, Mathematics for Physicists, Object-Oriented Programming, Data Handling

### A-levels and IGCSE | Harrow International School Bangkok - Thailand

August 2013 - June 2020 | Secondary Education

Graduated with Harrow Prize and 4.0 GPA

A-Levels: Physics (A\*), Chemistry (A\*), Mathematics (A\*), Further Mathematics (A), EPQ (A)

IGCSE: Physics(A\*), Mathematics(A\*), Chemistry(A), Biology(A), English Literature(A\*), History(A)

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## Work Experience and Courses

### Laidlaw Scholarship Research - Galaxies Group, University of St Andrews

May - July 2022 | Scholar/Research Intern - Supervisor: Dr Juan V. Hernández Santisteban

- Research title: Identifying active galactic nuclei for the SPHEREx observatory.
- Cross-matched sources from recent and archival sky surveys to identify active galactic nuclei.
- Produced LaTeX research report and poster to summarise work conducted.

### Advanced Engineering Workshop - NARIT

July 2020 | Student Attendee

- Studied the available technology for the development of the various projects conducted by NARIT
- Observed the technology and construction of the Thai National Radio Telescope
- Visited the production plant of the mirror coating machines designed for the Cherenkov Telescope Array

### Astronomy Data Handling Python Course - Newton Fund Program/NARIT

October 2019 | Attendee

- Attended lecture-style talks on Astrophysical concepts ranging from planetary orbits to stellar evolution
- Focused on Python coding for data visualisation and handling
- Created simulations using astronomical data from ASTROHUB

### King Mongkut's Institution of Technology Ladkrabang Physics Department

August 2019 | Intern

- Conducted and wrote lab reports on experiments in physics, mainly focusing on optical physics.

### National Astronomical Research Institution of Thailand (NARIT)

June 2018 | Intern

- Trained in basic astronomical Observation and Telescope setup.
- Trained on SalsaJ Photometry Software and wrote a report on finding the distance to M100 Galaxy.
- Shadowed researcher in the Optics lab and Mirror Coating workshop.
- Shadowed Astrophysicists and discussed how their work is being conducted at the institution

# Positions

## President - University of St Andrews Astronomical Society

March 2023 - Present | Chair committee meetings and represent the society.

## School Ambassador - University of St Andrews, School of Physics and Astronomy

May 2021 - Present | Represent the school at official events.

## Senior Observing Director - University of St Andrews Astronomical Society

May 2022 - March 2023 | Operate the telescopes during observation sessions for the society.

## Event Convenor - University of St Andrews Astronomical Society

May 2021 - May 2022 | Organise and run events for the society.

## Event Officer - University of St Andrews Thai Society

May 2021 - May 2022 | Assists the Event Director in organising and running events.

## Freshers Representative- University of St Andrews Astronomical Society

September 2020 - May 2021 | Promote and inform Freshers students of the society.

## First Year Astronomical Student Representative - University of St Andrews

September 2020 - December 2020 | Represent the students in the Astronomy modules.

## Senior Prefect - Harrow International School Bangkok Sixth Form

August 2019 - June 2020 | Chaired the Student's Academic Leadership Team.

## House Captain - Harrow International School Bangkok

August 2018 - June 2019 | Led weekly assembly and student leadership team.

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# Award and Qualification

## Laidlaw Foundation Research and Leadership Scholarship

February 2022 | Awarded to undergraduate students to undertake a research and leadership project

## University of St Andrews Dean's List

June 2021 | Awarded to Students with a mean grade over 16.5 on the university's non-linear scale

June 2022 | Awarded to Students with a mean grade over 16.5 on the university's non-linear scale

## Bronze, Silver, and Gold Level Completion - Duke of Edinburgh International Award

June 2020 | Awarded to students committed to a wide range of activities during their high school

## Harrow Physics Prize

June 2020 | Awarded to a student with the highest score in physics across the year

## BPO Bronze Medal

June 2020 | Awarded to students with a minimum grade in the BPO

## UKMT Silver Award

June 2019 | Awarded to students with a minimum grade in the UKMT Challenge

## Sixth Form Academic Scholarship

June 2019 | Awarded to students with a certain number of A/A\* in IGCSE

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# Others

Professional Membership: Fellow of the Royal Astronomical Society, Associate Member of the Institute of Physics

Computer Skills: Basic Java, OOP, Data Handling, Python 2 & 3 (Specialised in Data Visualisation), SQL/ADQL, LaTeX

Language: English (Fluent), Thai (Fluent), Japanese (Elementary Beginner)