

BHATTARADON SUKON

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Profile Summary

Physics graduate with a strong foundation in data analysis, numerical computing, and machine learning. Experienced in Python programming and scientific libraries for computational modeling and data-driven research. Conducted in-depth research in astrophysics, with a focus on galactic dynamics and black hole phenomena. Proven ability to apply analytical thinking and technical skills to solve complex problems across scientific and data-intensive domains.

Education

Suranaree University of Technology

Bachelor of Science in Physics GPAX: 3.32 (Second Class Honors)

Aug 2018 – Aug 2022

Nakhonratchasima, Thailand

Suranaree University of Technology

Master of Science in Physics GPAX: 3.71 (International)

Aug 2022 – Present

Nakhonratchasima, Thailand

Experience

Suranaree University of Technology

Research Assistant

Aug 2021 – Present

Nakhonratchasima, Thailand

- Develop and research the astronomy field, especially in galactic dynamics and black holes with numerical simulation.
- Conduct research writing and publication, as assigned.
- Give advise about research to undergraduate students.

Suranaree University of Technology

Teacher Assistant

Aug 2022 – Present

Nakhonratchasima, Thailand

- Responsible for teaching the Physics laboratory course as well as the Physics tutorial class.

Astronomy Olympiad Camp

Teacher Assistant

Oct 2024

Nakhonratchasima, Thailand

- In charge of instructing the Astronomy Olympiad Camp participants in Physics, Mathematics, Astronomy, and Astrophysics.

Publications and Conference

Conference Proceeding | *IOP science*

Feb 2023

- **Investigation of the periastron shift of star orbit in Hernquist potential**, B Sukon et al 2023 J. Phys.: Conf. Ser. 2431 012089

Workshop

Participants | *University workshop*

2023 – Present

- SUT School in Astrophysics and Cosmology.
- SUT coding workshop for high school and undergraduate students: Data analysis of black holes.
- IF-SUT School in Astrophysics and Cosmology (ISSAC)

Project

Winner | *SUT Hackathon*

2019

- Designed and developed a medication dispensing system using **Python** with **Machine learning** and **SQL** to reduce medication errors by 20%.
- Created a database to track medication inventory and optimize dispensing processes.

Skills

Programming Languages: Python, SQL (Search Queries)

Scientific Computing & Data Visualization: NumPy, Pandas, SciPy, Scikit-learn, Matplotlib, Power BI (Basic), Mathematica

Machine Learning: Classification, Linear Regression, Decision Trees, Random Forest, SVM, Neural Networks

Numerical Computing: ODEs, PDEs, Monte Carlo Methods, Interpolation, Numerical Derivatives, Integration

Development Tools & Environments: VS Code, Jupyter Notebook, Google Colab, PyCharm, Anaconda, Wolfram, Docker (Basic), Terminal Command Line

Productivity & Documentation: Microsoft 365, LaTeX, Overleaf

Specialized Knowledge & Applications: Data Analysis (Astrophysics, Black Holes), Machine Learning for Astronomy

Soft Skills: Research Writing, Problem-Solving, Teamwork, Leadership, Science Communication, Critical Thinking

Languages: Thai (Native), English (Independent User)

Leadership / Extracurricular

President of Student Class

Institute of Science

2018 – 2022

Suranaree University of Technology, Thailand

President and Athlete

SUT E-sport club

2020 – 2022

Suranaree University of Technology, Thailand

Science Communicator

Young Thai Science Ambassador

2019

National Science Museum, Thailand