

# Muhammad Taufiq Murtadho

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## Education

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- Korea Advanced Institute of Science & Technology (KAIST)** *September 2016–Present*
- Bachelor of Science (expected graduation: December 2020)
  - Major in Physics with a minor in Nuclear & Quantum Engineering
- Pribadi Bilingual School, Bandung, Indonesia** *June 2013–June 2016*
- High School Diploma

## Research & Teaching Experience

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- Participant at Wolfram Summer School 2020** *June - July 2020*
- Mentor: Prof. Marco Thiel, University of Aberdeen
  - Project: **Quantum Teleportation in String Substitution System**
- Undergraduate Research** *August 2019–June 2020*
- Supervisor: Prof. Bae Joonwoo, KAIST
  - Topic: Quantum information & thermodynamics
- Teaching Assistant (Online)** *March 2020–Present*
- Big Data and Language 1 & 2 courses, instructed by Prof. Park Seonmin (KAIST)
  - Responsible for managing courses, reviewing materials, and answering students' questions in Coursera platform
- Environmental Research Team Leader** *January–February 2020*
- Lead a team of four people to carry out environmental research as part of *KAIST Save The Earth: Global Challenge*
  - Topic: A case study of Indonesia, the impact of online food delivery platform on the packaging waste problem
- Research Internship, high-energy physics** *June –September 2018*
- Supervisor: Prof. Osamu Jinnouchi, Tokyo Institute of Technology
  - Accepted as *Bachelor Thesis*: Effectiveness Study of Quark/Gluon Jet Tagging for SUSY Search

## Scholarship & Awards

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- **Second Prize in Best Paper Awards:** *Integrated Information Theory: A Framework for the Modern Science of Consciousness*, KAIST School of Humanities & Social Science (Fall 2019)
- KAIST International Student Scholarship (2016-2020)
- **Top 15** in National Team Selection for **International Physics Olympiad (IPhO)** 2016
- **Gold Medal**, Physics National Science Olympiad (OSN) 2015, Indonesia
- **Bronze Medal**, Physics National Science Olympiad (OSN) 2014, Indonesia

## Programming Skill

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- **GitHub:** *taufiqmurtadho*
- **Language:** Python, C++
- **Software:** MATLAB, Mathematica, ROOT (CERN Data Analysis), Particle Physics Monte-Carlo Softwares (MadGraph, Pythia, Delphes)