

# Achmad Qoddri

Cirebon, West Java, 45156 | +62821-2036-9557 |  
qoddri@gmail.com | linkedin.com/in/qoddri

## ABOUT ME

I am a Physics graduate from Institut Teknologi Bandung, specializing in Computational Photonic Physics. With almost three years of experience as a physics teacher for High school and TPB (first year ITB students). I love helping others understand the wonder of physics. I am proficient in math and able to apply knowledge of physics to solve complex problems. I have also studied Web Programming, Data Science, and Machine Learning. Now, I am ready for a new adventure and excited to dive into the world of Information Technology.

## SKILLS

- English (Professional Working Proficiency)
- Microsoft Office (Word, Excel, PowerPoint)
- Programming (Python, MATLAB, JavaScript, SQL, PHP)
- Teaching
- Creative
- Leadership
- Problem Solving
- Teamwork

## WORK EXPERIENCES

- |  |  |
|--|--|
| <b>Smart Privat</b><br>Part-time<br>Sept 2023 – Present  | <ul style="list-style-type: none"><li>Teaching Physics for High School and first year of ITB students.</li></ul>   |
| <b>Photonics Computational Laboratory Research Assistant</b><br>Full-time<br>Oct 2023 – Nov 2024 | <ul style="list-style-type: none"><li>Doing simulations of scattering of electromagnetic waves in nano particles using MATLAB and COMSOL.</li><li>Investigated the scattering response of silicon nanospheres in an aggregate structure.</li></ul> |
| <b>Lecturer Assistant</b><br>Feb 2023 – May 2024   | <ul style="list-style-type: none"><li>Create questions and solutions for homework and quizzes in several Lectures. (Elementary Physics, STOM, and Quantum Physics)</li><li>Demonstrate physics experiments during class lectures.</li></ul>        |
| <b>Student Center for Learning</b><br>Aug 2023 – Dec 2023  | <ul style="list-style-type: none"><li>Teaching Elementary Physics for first year of ITB students.</li></ul>  |

## VOLUNTEER EXPERIENCES

- |  |  |
|--|--|
| <b>Asian Physics Symposium</b><br>Oct 2023       | <ul style="list-style-type: none"><li>Actively assist fellow committee members in completing required tasks, such as decoration, registration, logistics, and documentation.</li></ul> |
| <b>SCoMOA – Lab Works Assistant</b><br>July 2023 | <ul style="list-style-type: none"><li>Enhanced communication, presentation, and problem-solving skills by explaining complex scientific concepts to students.</li></ul>                |
| <b>ISMOA – Manage Event Venue</b><br>July 2023   | <ul style="list-style-type: none"><li>Responsible for overseeing all aspects of venue selection, preparation, and coordination.</li></ul>  |

## EDUCATION

- |   |   |
|---|---|
| <b>Institut Teknologi Bandung</b><br>Physics<br>Aug 2019 – Oct 2024 | <ul style="list-style-type: none"><li>GPA: 3.23/4.00</li><li>Silver Medal Physics-Astronomic Student Olympiad 2020</li><li>Gold Medal Mathematics Diponegoro Science Competition 2020</li></ul> |
| <b>SMAN 1 Sumber</b><br>Natural Science<br>May 2016 – June 2019     | <ul style="list-style-type: none"><li>Best Student runner-up Class 2019</li><li>Second place National Science Olympiad (OSN) 2018 in Physics – Cirebon District</li></ul>                       |

## COURSES & CERTIFICATION

- |   |   |
|---|---|
| <b>Codepolitan</b><br>Fullstack Web Developer<br>Oct 2024 - Present | <ul style="list-style-type: none"><li>Create Portofolio, Coffee Shop, and Wedding Invitation Website.</li><li>Learning Frontend and Backend Framework (React and Laravel) with some projects (Split Bill, Shipping Website, Online Shop, and E-Wallet).</li></ul> |
| <b>Kaggle</b><br>Data Science and Machine Learning<br>Oct 2023      | <ul style="list-style-type: none"><li>Learning Data Science to visualize, analyze, and predict the future data for decision-making purposes.</li><li>Learn Machine Learning and create speech recognition with backpropagation algorithm.</li></ul>               |