

# NGUYEN CHI BANG

Lead developer & Researcher

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## EXPERIENCE

### Research and Software Development

#### Time Sequence Optimization

 7/2024 - Ongoing  HCMUT

- Research and development of optimal scheduling algorithms, integrating machine learning and deep learning for single-machine and multi-machine systems.
- Design of a Python library to support the implementation and optimization of scheduling algorithms.

### Operations Research

#### Methods for Solving Integer Linear Optimization Problems


 8/2023 - 5/2024  SGU



- Researched and applied Branch and Bound and Gomory algorithms to solve linear optimization problems with integer constraints.
- Designed a Python library to support the implementation and optimization of the Branch and Bound algorithm.
- Research project rated as excellent, ranked in the top 30% out of a total of 179 projects.

## PROJECTS

### TiLearn


#### A Python library for machine scheduling.


 7/2024 - Ongoing

- Applied scheduling algorithms and machine learning methods.
- Open-source platform providing tools and resources to help individuals and teams manage time effectively.
- PyPI 
- GitHub 

### Optimization-Oracle

#### An open-source library for efficient MILP algorithms.

 8/2023 - Ongoing

- Open-source library for developing and improving Branch and Bound algorithms to handle Mixed Integer Linear Programming (MILP) problems.
- GitHub 

## PUBLICATIONS

- [1] Do Ngoc Minh Thu Nguyen Chi Bang. *Method for Solving Integer Linear Optimization Problems*. 2024.

## MOST PROUD OF



### Burning Passion

Always passionate about the work being done and constantly learning new things.



### Chill Guy

Knows how to turn challenges and pressure into motivation.

## STRENGTHS

C/C++

Python

Data Analysis

Library Development

Optimization

Operations Research

Machine Learning

Deep Learning

## SKILLS

Maths & Code



English



## EDUCATION

JR. in Applied Mathematics

Saigon University

 2022 – 2026

## REFEREES

Assoc. Prof. Dr. Ta Quang Son

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