# Danny Gho

Website: [dannygho.com](dannygho.com) Email: [dannywahyudi351@gmail.com](dannywahyudi351@gmail.com)
LinkedIn: [linkedin.com/in/dannygho/](linkedin.com/in/dannygho/)
國語簡歷在 [dannygho.com/guoyiCV](dannygho.com/guoyiCV)

Scan for Website

## Personal Statement

M.Sc. in Civil Engineering with deep understanding of computer programming and machine learning. Familiar with uncertainty quantification and reliability of structures. Interested in structural engineering, research, or data analyst position.

## Skills

***Language:*** Bahasa Indonesia (Native), English (CEFR C1), Mandarin (Basic)
***Programming Language:*** C++, Go, MATLAB, PHP, Python, Simulink, SQL, Tcl, VBA
***Technologies and Methodologies:*** Docker, Django, Amazon Web Service, Tensorflow, Git, Bootstrap, Optimization, LaTeX
***Civil Engineering Software:*** SAP2000/ETABS, OpenSees, XTRACT
***Structural Code:*** ACI 318-19, AISC 341, AISC 360, ASCE 7

## Education

國立台灣科技大學 National Taiwan University of Science and Technology (Taipei, TW)
**M.Sc. 營建工程系 Civil and Construction Engineering Department**    *January 2023*
**Structural Engineering 結構工程係**
GPA: 4.13 out of 4.30
Research Area: Uncertainty Quantification (UQ) of Active Control in Linear and Nonlinear Structural Models
Relevant Course: Behavior of Reinforced Concrete Structure, Advanced Behavior and Design of Steel Structure, Earthquake-Resistant Design, Structural Control, Artificial Intelligence for Project Management

**Universitas Kristen Petra** Petra Christian University (Surabaya, ID)
**S.T. (equivalent to B.Eng.) Teknik Sipil / Civil Engineering**    *August 2019*
GPA: 3.52 out of 4.00
Research Area: Size Effect on Reinforced Concrete Shear Wall
Relevant Course: Introduction of Structural Dynamics of Tall Building, Advanced Concrete Structure, Design of Steel Structure (I, II, and III), Design of Concrete Structure (I, II, and III), Metaheuristic and Artificial Intelligence for Project Management

## Career History

**Engineer**, *P-Waver Inc. (Taipei, TW)*    *March 2023 - Now*
*National Center for Research on Earthquake Engineering Spinoff Company*

- Job task is covered by NDA.
- Work related to Earthquake Early Warning System (EEWS) and Structural Health Monitoring.

**Data Analyst**, *C.V. Sinar Bintang Timur (Surabaya, ID)*    *February 2020 - January 2021*
*Mining, Forestry, and Heavy Equipment Sector*

- Developed a comprehensive Django based internal web application for production and equipment data storage and analysis.

- Design and implement standard operating procedure for logistic department.
- Maintain, verify and crunch data as requested.
- Coordinate with external consultant to implement improvement in Logistic and Purchasing department.

**Project Staff, Student's Affair**, *Universitas Kristen Petra (Surabaya, ID) October 2019 - January 2020*

- Increased the University awareness on the relevant national regulation on Student's Affair.
- Analyze the relevant system and business procedure at the University and helped to suggest the proper action to increase the University compliance.
- Helped to coordinate or assist several activities that is related to external partner/cooperation.

## Award and Honors

- Project 1 Honorable Mention - The 2nd International Competition for Structural Health Monitoring (2021)
- National Taiwan University of Science and Technology Full Scholarship (2021-2023)
- A.A. Rachmat Loving Service Foundation Scholarship (2016-2019)
- Republic of Korea Ministry of Education - National Institute of International Development Global Korea Scholarship for ASEAN Science and Engineering Student (2018)
- 3rd Winner of Kopertis VII (now LL DIKTI VII, Indonesia Ministry of Education, Culture, Research, and Technology) Outstanding Student Competition (2018)
- 1st Winner of Universitas Sebelas Maret (Solo, ID) Concrete Innovation Competition
- Top 10% Student of Civil Engineering department batch 2015

## Selected Leadership Activities

**Member**, PlasmaPetra (COVID-19 Convalescent Plasma Donor Matchmaking Website)

**Coordinator**, "Aku untuk Indonesiaku" National Seminar - Universitas Kristen Petra

**Chair of the Student Representative Council**, Universitas Kristen Petra

**Foreign Student Mate/Buddy**, Petramate

**Coordinator**, Building Information Modeling and Artificial Intelligence Application in Construction Engineering

**Mentor**, Informal - Provide guidance and mentorship to undergraduate in Petra Christian University Student Union

## Publication History

Updated publication history can be seen at [dannygho.com](dannygho.com)

- **Wahyudi, G.D.** (2023). *Membangun Masyarakat Tangguh Gempa* , Jawa Pos (Newspaper Opinion Piece), 11 Mei 2023
- **Wahyudi, G.D.** (2022). *Korban Jiwa Karena Gempa, Sampai Kapan?* , Kompas (Newspaper Opinion Piece), 24 November 2022
- Chen, P.C. & **Gho, D.** (2022). *Active Seismic Control Simulation of Nonlinear Structures using OpenSees-Simulink Connection*, 8th Asia Conference on Earthquake Engineering, Taipei, 2022, National Center for Research on Earthquake Engineering (NCREE)

- Chou, J.S., Liu, C.Y., Prayogo, H., Khasani, R.R., **Gho, D.** & Lalitan, G.G. (2022). Predicting nominal shear capacity of reinforced concrete wall in building by metaheuristics-optimized machine learning. *Journal of Building Engineering*

- Chen, P.C. & **Gho, D.** (2022). *Comparison between Monte Carlo Simulation with Standard Random Sampling and Latin Hypercube Sampling for Uncertainty Quantification of PID Control for SDOF Structures*, The 16th National Conference on Structural Engineering and The 6th National Conference on Earthquake Engineering, Taipei, 2022, Chinese Society of Structural Engineering

- Handayo, E. A., **Gho, D.**, & Iskandar, E. A. (2021). Digital Leadership yang Digital. In *From Daring to Caring: Pandemic Best Practices in Higher Education* (pp. 46-53). Surabaya: LPPM Universitas Kristen Petra.

- **Wahyudi, G. D.**, Sutanto, D. A., Chandra, J., & Purnomo, J. (2019). Analisis Dampak Ukuran Terhadap Kekuatan Geser Dinding Beton Bertulang. Jurnal Dimensi Pratama Teknik Sipil, 8(2), 59-65

- **Gho, D.**, & Tumanan, P. (2019). *Innovative Google Earth-based Community Service for Inclusive Nation Building*, The 7th Asia-Pacific Regional Conference on Service-Learning, Singapore, 2019, Singapore University of Social Science

- Hermawan, S., & **Gho, D.** (2019). *Application and Lesson Learned in Civil Engineering, Environmental Science Service-Learning Program*, The 7th Asia-Pacific Regional Conference on Service-Learning, Singapore, 2019, Singapore University of Social Science