RIFQI IKHWANUDDIN

Head of Sustainable & Intelligent Built-Environment Lab
rifqi.ikhwanuddin@tf.itera.ac.id

Assistant Professor at **Engineering Physics** • (February 2018 – Now)
Department of Electrical, Informatics, and Physical System Engineering
Institut Teknologi Sumatera • South Lampung, Indonesia 35365

Google Scholar | ORCID
rifqi@ikhwanudd.in
+62-878-5454-0572

EDUCATION

INSTITUT TEKNOLOGI BANDUNG   CGPA 3.92 / 4.00 • Cum Laude
M.Sc (or M.T.) in Engineering Physics   Jan 2016 – Mar 2018 • Bandung, Indonesia
Master's Thesis: **Simulation for Sonic Environment of University Library based on First Order Ambisonic Recording in Soundscape Context** [URL]

UNIVERSITAS GADJAH MADA   CGPA 3.40 / 4.00 • High Merit
B.Eng (or S.T.) in Engineering Physics   Aug 2009 – Aug 2014 • Yogyakarta, Indonesia
Undergraduate Thesis: **Analysis of Dome Geometry Effect on Acoustic Conditions of AR Fachruddin UMM Mosque by using CATT-Acoustic**

RESEARCH INTEREST

Soundscape, Sustainable Built-Environment, Bioacoustics, Audio Signal Processing, & Machine Learning

SKILLS

PROGRAMMING   Python, LaTeX, C++, Markdown, Javascript, HTML, PHP, CSS, MySQL
ENGLISH PROFICIENCY IELTS Academic 7.5
SOFTWARE   MATLAB, Audacity, Adobe Audition, Reaper, Plogue Bidule, OSCulator, COMSOL Multiphysics, CATT-Acoustics, Final Cut Pro, DIALux EVO

SELECTED PUBLICATIONS

[1] Iva Rofiatun Nisa Azzahra, Joko Sarwono, Iwan Prasetiyo, Anugrah Sabdono, Randy Frans Fela, Sentagi Sesotya Utami, and Rifqi Ikhwanuddin. Hospital Soundscapes: Soundscapes Interventions in Intensive Care Unit. In *25th International Conference on Sound and Vibration*, 2018.

[2] Sentagi Sesotya Utami, Randy Frans Fela, Joko Sarwono, and Rifqi Ikhwanuddin. Acoustics Survey to Predict Occupants' Preferences of A Library. In *25th International Conference on Sound and Vibration*, 2018.

[3] Angga Dwi Firmanto, Ivan Stefanus, Rifqi Ikhwanuddin, and Miranti Indar Mandasari. Design of Speech Forensic Database in Developing Automatic Recognition System based on Indonesia Language. In *Seminar Nasional Sistem, Instrumentasi, dan Kontrol (SIK) 2017*, pages 97–104, 2017.

[4] Rifqi Ikhwanuddin, Joko Sarwono, Anugrah Sabdono Sudarsono, and Sentagi Sesotya Utami. Library Soundscape: Higher Education Students' Perception. In *INTER-NOISE and NOISE-CON Congress and Conference Proceedings*, volume 255 of *4*, pages 3875–3881. Institute of Noise Control Engineering, 2017.

[5] Rifqi Ikhwanuddin, Randy Frans Fela, and Sentagi Sesotya Utami. Analysis of Dome Geometry Effect on Acoustics Conditions of A.R. Fachruddin Mosque UMM using CATT-Acoustic. In *The 5th International Conference on Mathematics and Natural Sciences*, 2014.

AWARDS & GRANTS

DOCTORAL BRIDGING COURSE   Nov 2021 – Feb 2022 • **NUI Galway, Ireland**
Awarded Doctoral Bridging Course funded by Ministry of Education, Culture, Research, and Technology Indonesia (approximately £11,100)

SIMLITABMAS YOUNG RESEARCHER GRANT   Mar – Des 2019 • **Indonesia**

Research Grant on Red Brick as Sustainable Materials funded by Ministry of Education, Culture, Research, and Technology Indonesia (approximately £1,100)

SIMLITABMAS YOUNG RESEARCHER GRANT
Mar – Des 2019 ● **Indonesia**
Research Grant on Implementing HTML5 WebAudio on Soundscape Reproduction funded by Ministry of Education, Culture, Research, and Technology Indonesia (approximately £1,000)

SMART ITERA RESEARCH GRANT
Mar – Des 2018 ● **Indonesia**
Research Grant on Sustainable Materials funded by Institut Teknologi Sumatera (approximately £1,230)

CUM LAUDE: GRADUATING WITH HONORS
Apr 2018 ● **Bandung, Indonesia**
Awarded by Institut Teknologi Bandung (CGPA 3.92/4.00)

MASTER'S DEGREE SCHOLARSHIP
Jun 2015 ● **Indonesia**
Awarded by Indonesia Endownment Fund for Education (Lembaga Pengelola Dana Pendidikan, LPDP) Ministry of Finance Indonesia (approximately £7,000)

UNDERGRADUATE DEGREE SCHOLARSHIP
Aug 2009 – Aug 2013 ● **Indonesia**
Awarded by Budi Mulia Islamic Boarding School, Shalahuddin Foundation (approximately £1,400)

PROJECT EXPERIENCES

SUSTAINABLE & INTELLIGENT BUILT–ENVIRONMENT ITERA
2021 ● **Lampung, Indonesia**
COMMUNITY SERVICE GCP (Google Cloud Platform) Workshop for School Teachers
COMMUNITY SERVICE Google Classroom Workshop for School Teachers

COMMUNITY SERVICE Improving Live and Sound Recording at Mosque Ad-Du'a   2020 ● **Lampung, Indonesia**
RESEARCH Animal Identification by Extracting MFCC Audio Feature and Machine Learning
COMMUNITY SERVICE Evaluating Room Acoustics for Worship Building at Mosque Al-Huda

RESEARCH Soundscape Tools for Assessing Sonic Environment using WebAudio API   2019 ● **Lampung, Indonesia**
RESEARCH Sustainable Building Material: Modifying Composition of Traditional Red Brick with Waste Banner

2018 ● **Lampung, Indonesia**
COMMUNITY SERVICE Building a Web Database for The Provincial Government of DKI Jakarta, Indonesia

ACOUSTICS & BUILDING PHYSICS LAB ITB
2017 ● **Bandung, Indonesia**
RESEARCH Designing Sound Reinforcement System for National Sports Week XIX West Java
COMMUNITY SERVICE Evaluating Room Acoustics at Masjid Darussalam Kota Wisata Cibubur, West Java
COMMUNITY SERVICE Sound Reinforcement System for ITB Jazz Concert

COMMUNITY SERVICE Sound Reinforcement System for ITB Jazz Concert   2016 ● **Bandung, Indonesia**

ACOUSTICS RESEARCH CENTER UGM
2014 ● **Malang, Indonesia**
RESEARCH Evaluating Room Acoustics for Worship Building at Masjid AR. Fachruddin UMM, East Java
RESEARCH Evaluating Sound Reinforcement System at Multi-Purpose Hall Grha Sabha Pramana UGM, DIY

PROFESSIONAL MEMBERSHIP

2019 – now	Green Associate (GA) in Green Building Council Indonesia (GBCI)
2020 – 2021	Young Engineer in Badan Keahlian Teknik Fisika Persatuan Insinyur Indonesia (BKTF PII)
2020 – 2021	Audio Engineering Society (AES)
2019 – 2021	Indonesian Acoustics and Vibration Association
2016 – 2019	Institute of Acoustics (IoA)

REFERENCES

Ir. R. S. **Joko Sarwono**, S.T., M.T., Ph.D
jsarwono@tf.itb.ac.id
Master's thesis supervisor
Associate Professor in Engineering Physics
Institut Teknologi Bandung (ITB)

Ir. **Sentagi Sesotya Utami**, S.T., M.Sc., Ph.D
sentagi@ugm.ac.id
Undergraduate thesis supervisor
Associate Professor in Engineering Physics
Universitas Gadjah Mada (UGM)