

Curriculum Vitae

DIENO DIBA

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WORK EXPERIENCE

2025-Present	Dublin Institute for Advanced Studies Postdoctoral Researcher in Geophysics
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EDUCATION

2022-2025	The University of Tokyo PhD, Geophysics
2020-2022	The University of Tokyo MS, Geophysics
2015-2019	Institut Teknologi Bandung BS, Physics

AWARDS AND SCHOLARSHIPS

- Excellent Student Presentation by Society of Geomagnetism and Earth, Planetary and Space Sciences (SGPESS), 2024
- Outstanding Student Presentation Award by Japan Geoscience Union (JpGU), 2024
- Full Scholarship for doctoral program by the SPRING-GX Project of the University of Tokyo, 2022-2025
- Full scholarship for master's program by the Indonesian Endowment Fund for Education (LPDP) of the Ministry of Finance of Indonesia, 2020-2022
- Sakura Science research internship program to Earthquake Research Institute, the University of Tokyo, by Japan Science and Technology (JST), 2019
- Cumlaude distinction, Institut Teknologi Bandung, 2019

OTHER ACTIVITIES

- Chairman, Indonesian Student Association at the University of Tokyo, 2021-2022
- Laboratory Assistant, Advanced Physics Laboratory, Institut Teknologi Bandung, 2019

- Research Student, Ministry of Energy and Mineral Resources of Indonesia, 2018

PUBLICATIONS

- 6 Song H, Usui Y, Uyeshima M, Yu P, Diba D, Yang B, Baba K, Koyama T (2025) Revealing the Non-uniqueness Inherent in MT Inversion: A Comparative Study of Influential Factors and Algorithm-Dependent Uncertainties in FEMTIC and ModEM with USArray MT Data, *Surv Geophys* 46 1079-1135
- 5 Diba D, Song H, Uyeshima M, Usui Y (2025), Three-dimensional magnetotelluric inversion with structurally guided regularization constraint, *Phys Earth Planet Inter* 361 107333
- 4 Diba D, Nurhasan, Uyeshima M, Usui Y (2024) Two-dimensional magnetotelluric inversion using unstructured triangular mesh implemented in Julia. *J Phys Conf Ser* 2734 012008
- 3 Nurhasan, Naufal MR, Srigutomo W, Mustopa EJ, Diba D, Ogawa Y, Nada Q, Pratama A, Rusdiana R (2024) Resistivity Distribution of Lembang Fault Based on Magnetotelluric Data. *J Phys Conf Ser* 2734 012014
- 2 Diba D, Uyeshima M, Ichiki M, Sakanaka S, Tamura M, Yuan Y, Gresse M, Yamaya Y, Usui Y (2023) On a large magmatic fluid reservoir oblique to the volcanic front in the southern part of NE Japan revealed by the magnetotelluric survey. *Earth Planets Space* 73 146
- 1 Diba D, Nurhasan, Sutarno D, Ogawa Y (2021) Subsurface Structure around Mas Crater of Papandayan Volcano based on Magnetotelluric and Geomagnetic Data. *J Conf Phys Ser* 1949 012013

PRESENTATIONS

- 19 Diba D, Kiyan D, Hogg C, Maggio G, Bean C, MacKenzie M, O'Grady M, Reay D (2025) Geothermal potential of the Lough Neagh Basin: Insight from magnetotellurics (GEMINI Project), *GSI-iCRAG Geothermal Research Workshop*, Poster
- 18 Diba D, Song H, Uyeshima M, Usui Y, Ichiki M, Sakanaka S, Tamura M, Yuan Y, Gresse M (2024) MT study in the southern part of Tohoku region: Unveiling electrical resistivity structure and its geological implications, *156th Society of Geomagnetism and Earth, Planetary and Space Sciences (SGEPSS) Fall Meeting*, Oral
- 17 Diba D, Song H, Uyeshima M, Usui Y (2024) 3D magnetotelluric inversion with structurally guided regularization constraint, *26th EM Induction Workshop*, Poster

- 16 Song H, Yu P, Diba D, Usui Y, Uyeshima M (2024) 3D joint inversion of MT and seismic with hybrid structural and petrophysical couplings, *26th EM Induction Workshop*, Poster
- 15 Song H, Usui Y, Koyama T, Diba D, Uyeshima M, Baba K, Yu P, Yang B (2024) The use of L-curve criteria in non-linear inverse problem, *26th EM Induction Workshop*, Poster
- 14 Diba D, Song H, Uyeshima M, Usui Y (2024) Structurally constrained magnetotelluric inversion using a modified regularization constraint: An alternative to the cross-gradient, *Japan Geoscience Union (JpGU) Meeting 2024*, Poster
- 13 Song H, Uyeshima M, Yu P, Diba D, Usui Y, Huang Z, Zhao C, Zhang L (2024) 3-D joint inversion framework with hybrid structural and petrophysical couplings, *Japan Geoscience Union (JpGU) Meeting 2024*, Poster
- 12 Usui Y, Uyeshima M, Sakanaka S, Hashimoto T, Kaneko S, Ichiki M, Kaida T, Yamaya Y, Kihara S, Koyama T, Miyakawa K, Hirase K, Hoshino G, Tomioka Y, Ide K, Shimizu R, Terai A, Yoshie Y, Ogawa Y, Kitaoka N, Masuda M, Akiyama T, Diba D, Hitotsumatsu H, Murakita T, Nakayauchi K, Watanabe A, Sakiyama R (2023) Characteristic features of the magnetotelluric response functions in the northern Kanto region, *153rd Society of Geomagnetism and Earth, Planetary and Space Sciences (SGEPSS) Fall Meeting*, Poster
- 11 Song H, Uyeshima M, Yu P, Usui Y, Diba D, Zhang L, Zhao C, Huang Z (2023) Integrated interpretation of structure around the Atotsugawa Fault by multi-physics joint inversion of MT, Seismic, Magnetic, and Gravity data, *153rd Society of Geomagnetism and Earth, Planetary and Space Sciences (SGEPSS) Fall Meeting*, Poster
- 10 Diba D, Uyeshima M, Ichiki M, Sakanaka S, Tamura M, Yuan Y, Gresse M, Yamaya Y, Usui Y (2023) Constrained inversion of MT data with seismic velocity model in the southern part of NE Japan, *153rd Society of Geomagnetism and Earth, Planetary and Space Sciences (SGEPSS) Fall Meeting*, Poster
- 9 Diba D, Uyeshima M, Ichiki M, Sakanaka S, Tamura M, Yuan Y, Gresse M, Yamaya Y, Usui Y (2023) Magnetotelluric imaging for fluids in the crust and upper mantle beneath the southern part of Northeast Japan subduction zone, *The 28th International Union of Geodesy and Geophysics (IUGG) General Assembly*, Oral
- 8 Diba D, Uyeshima M, Ichiki M, Sakanaka S, Tamura M, Yuan Y, Gresse M, Yamaya Y, Usui Y (2023) 3-D resistivity structure of the southern part of NE Japan, *Japan Geoscience Union (JpGU) Meeting 2023*, Oral
- 7 Diba D, Uyeshima M, Ichiki M, Sakanaka S, Tamura M, Yuan Y, Gresse M, Yamaya Y, Usui Y (2022) Resistivity structure beneath Southern Tohoku imaged by joint inversion of magnetotelluric and geomagnetic transfer functions, *151st Society of Geomagnetism and Earth, Planetary and Space Sciences (SGEPSS) Fall Meeting*, Oral

- 6 Diba D, Uyeshima M, Ichiki M, Sakanaka S, Tamura M, Usui Y (2022) Electrical resistivity structure beneath the southern Tohoku, Northeast Japan, inferred from a joint inversion of magnetotelluric and geomagnetic transfer functions, *25th EM Induction Workshop*, Poster
- 5 Diba D, Uyeshima M, Ichiki M, Sakanaka S, Tamura M, Usui Y (2022) Subsurface electrical resistivity structure beneath the southern part of Tohoku, NE Japan, revealed by magnetotelluric and geomagnetic transfer functions, *Japan Geoscience Union (JpGU) Meeting 2022*, Oral
- 4 Diba D, Uyeshima M, Ichiki M, Sakanaka S, Tamura M, Usui Y (2021) Electrical resistivity structure beneath the southern part of Tohoku, NE Japan, revealed by magnetotelluric (MT) survey, *150th Society of Geomagnetism and Earth, Planetary and Space Sciences (SGEPSS) Fall Meeting*, Oral
- 3 Diba D, Uyeshima M, Ichiki M, Sakanaka S, Tamura Y, Yamaya Y, Usui Y (2021) Characteristic features of the response functions estimated from a wide band magnetotelluric (MT) data in the southern Tohoku area, *Japan Geoscience Union (JpGU) Meeting 2021*, Oral
- 2 Diba D, Nurhasan, Sutarno D, Mustopa EJ, Srigutomo W, Ogawa Y (2019) Investigation of 2D resistivity structure based on magnetotelluric data around Mas Crater area of Papandayan Volcano, Indonesia, *2nd International Congress on Earth Sciences*, Oral
- 1 Diba D, Nurhasan (2019) Subsurface structure around Mas Crater area of Papandayan Volcano, Indonesia, based on magnetotelluric (MT) and geomagnetic data, *8th Asian Physics Symposium*, Oral