

CURICULUM VITAE



Dr.rer.nat. Teti Zubaidah, ST.MT.

Wonogiri, 19 November 1974

EMTECH " *Electromagnetic Technology for Environmental Conservation & Humanity*" Research Group

www.aemt-geomagnetic.org

Email: tetizubaidah@te.ftunram.ac.id

Alamat Rumah:

Jl. Kelapa Tiga (Panji Tilar), Gg. I,
No. 1

Kekalik Jaya, Mataram 83127

Telp. +62-(0)370-6170457

Fax. +62-(0)370-625589

Mobile +62(0)817368685

Alamat Kantor:

Jurusan Teknik Elektro, Universitas
Mataram

Jl. Majapahit 62, Mataram 83125

Lombok - Nusa Tenggara Barat,

INDONESIA

Telp. +62-(0)370-636126/636755

Fax. +62-(0)370-636523

Pendidikan:

- PhD dalam bidang Geofisika pada Universität Potsdam/
GeoForschungsZentrum (GFZ), Potsdam - Germany (2006-2010, *Magna Cum Laude*).
Disertasi: Spatio-temporal characteristics of the geomagnetic field over the Lombok Island, the Lesser Sunda Islands region: New geological, tectonic, and seismo-electromagnetic insights along the Sunda-Banda Arcs transition.
Supervisors: Prof. Michael Weber & Dr. Monika Korte.
Reviewers: Prof. Dr. Michael Weber, Prof. Sri Widiyantoro PhD, Prof. Dr. Katsumi Hattori.
Tim Penguji: Prof. Dr. Mioara Manda, Prof. Dr. Mohamed Hamoudi, Prof. Dr. Frank Krueger, Prof. Dr. Patrick O'Brien, Prof. Dr. Romain Bousquet, Dr. Makky Sandra Jaya.
- Master dalam Electrical Engineering pada Universitas Gadjah Mada, Yogyakarta (1998-2001, *Cum Laude*).
Tesis: Rancang bangun perangkat lunak untuk analisis kompatibilitas elektromagnetik pada sistem kontrol dan proteksi pada Gardu Induk.
Pembimbing: Ir. Tumiran, MT. Ph.D & Ir. T. Haryono, MT.
- Sarjana dalam Electrical Engineering pada Universitas Indonesia, Depok (1993-1997, *Cum Laude*).
Skripsi: Analisis pengaruh induksi magnetik pada proteksi diferensial trafo (Studi kasus pada SST-4 di Proyek Pembangkit Suralaya Unit 5, 6, & 7).
Pembimbing: Dr. Ir. Martin Roekman & Ir. Pribadi Kadarisman

Pengalaman Profesi:

- Pengajar Senior pada Jurusan Teknik Elektro, Universitas Mataram
- Pengajar pada Magister Teknik Sipil, Universitas Mataram
- Ketua Pusat Unggulan Ipteks "Geomagnetik" Universitas Mataram (2019-...)
- Kepala Observatorium Geomagnetik Lombok (2014- ...)

- Kepala Laboratorium Teknik Kendali, Universitas Mataram (2010-2014)
- Ketua Research Group on " Electromagnetic Technology for Environmental Conservation and Humanity" (2018- ...)
- Ketua Research Group on "Applied Electromagnetic Technology" (2014-2018)

Pengalaman Organisasi:

- Institut of Electrical and Electronic Engineers (IEEE) Indonesia Section, Koordinator Wilayah Indonesia Timur (2017-2018)
- Himpunan Ahli Geofisika Indonesia (HAGI), Anggota, 2011-...
- Ikatan Cendekiawan Muslim Indonesia (ICMI), Anggota, 2015-...
- Forum Dosen Muslimah Unram, Ketua, 2012-...

Pengalaman Mengajar:

- Elektromagnetika (S1)
- Fisika Dasar 1 & 2 (S1)
- Gejala Medan Tinggi (S1)
- Pra Tugas Akhir (S1)
- Manajemen Geo Informasi Spasial (S2)
- Manajemen Mitigasi & Adaptasi Bencana (S2)

Pengalaman Penelitian:

- Pengembangan Observatorium Geomagnetik untuk Sistem Peringatan Dini Bencana Gempa Bumi Terintegrasi di Wilayah Indonesia Timur (Penelitian Terapan Unggulan Perguruan Tinggi, 2018-2020)
- Observasi Geomagnetik dan Seismologi Terpadu di Pulau Lombok: Kontribusi untuk Pemodelan Global dan Mitigasi Bencana Gempa Bumi Wilayah Indonesia Timur (Penelitian Unggulan Perguruan Tinggi, 2015-2016)
- Konsentrator Flux Geomagnetik Untuk Pembangkit Listrik Tenaga Magnet Bumi (INSINas, 2012-2014)
- Pengolahan Sinyal Seismo-geomagnetik untuk Mitigasi Bencana Gempa Bumi Tektonik Regional di Wilayah Indonesia Timur (Penelitian Unggulan Perguruan Tinggi, 2012-2013)
- Pemantauan keberadaan anomali geomagnet ekstrem di pulau Lombok NTB: Penentuan pola variasi anomali geomagnet untuk prediksi terjadinya gempa tektonik di daerah patahan (Hibah Pekerti, 2006-2007)
- Pengembangan metodologi elektromagnetik dan aplikasinya untuk evaluasi sumber anomali magnetik bumi: Kajian tentang potensi sumber daya alam di kota Mataram pulau Lombok propinsi Nusa Tenggara Barat (PRSD MIPA, 2005-2006)
- Pemodelan fisika aplikasi metode geolistrik tahanan jenis untuk survey pipa bawah permukaan (Dosen Muda, 2006)
- Pemodelan fisika aplikasi metode geolistrik konfigurasi schlumberger untuk investigasi keberadaan air tanah (Dosen Muda, 2006)

- Investigasi potensi anomali medan magnet bumi di kota Mataram pulau Lombok propinsi Nusa Tenggara Barat (Semi QUE JTE Unram, 2004)

Pengalaman Pengabdian:

- Pemberdayaan Masyarakat Desa Rembitan Menuju Desa Mandiri Energi Melalui Penyediaan Listrik dari Energi Angin (IbM, 2016)
- Pelatihan Siaga Bencana dan Pengoperasian Stasiun Pemantau Fluktuasi Geomagnetik di PP Nurul Bayan dan SMPN 2 Gangga Kab. Lombok Utara (IbM, 2014)

Pengalaman Merumuskan Kebijakan Publik:

Raperda Penanggulangan Bencana, Provinsi NTB, 2014

Penghargaan:

- Dosen Berprestasi Peringkat-1, Tingkat Universitas (Universitas Mataram), 2011
- Promotion Urkunde: *Magna Cumlaude* (Universitaet Potsdam, Germany), 2010

Publikasi pada Jurnal Internasional:

Zubaidah T, Korte M, Manda M, Hamoudi M (2014), New insights into regional tectonics of the Sunda-Banda Arcs region from integrated magnetic and gravity modelling. *Journal of Asian Earth Sci*, 80 (5): 172-184.

Zubaidah T, Kanata B, Paniran (2014) Three-Dimensional Mapping of Static Magnetic Fields over a Semi Anechoic Chamber. *International Journal of Technology (IJTech)*, Vol. 5, No. 3, pp. 209-218, doi: <http://dx.doi.org/10.14716/ijtech.v5i3.606>.

Kanata B, **Zubaidah T**, Irmawati B (2014) Changes of the Geomagnetic Signal linked to Tohoku Earthquake on March 11th 2011. *International Journal of Technology (IJTech)*, Vol. 5, No. 3, pp. 251-258, doi: <http://dx.doi.org/10.14716/ijtech.v5i3.611>

Kinasih IP, Wiriasto GW, Kanata B, **Zubaidah T** (2014) Lesser Sunda Islands Earthquake Inter-Occurrence Times Distribution Modeling. *International Journal of Technology (IJTech)*, Vol. 5, No. 3, pp. 242-250, doi: <http://dx.doi.org/10.14716/ijtech.v5i3.610>

Zubaidah T, Korte M, Manda M, Quesnel Y, Kanata B (2010) Geomagnetic field anomalies over the Lombok Island region: an attempt to understand the local tectonic changes. *Int. J. Earth Sci. (Geol. Rundsch.)*, 99 (5): 1123-1132, doi: 10.1007/s00531-009-0450-4.

Zubaidah T (2010) Spatio-temporal characteristics of the geomagnetic field over the Lombok Island, the Lesser Sunda Islands region: New geological, tectonic, and seismoelectromagnetic insights along the Sunda-Banda Arcs

transition. *Scientific Technical Report of GFZ*, STR10/07, ISSN 1610-0956, doi: 10.2312/GFZ.b103-10079.

Paper Seminar Internasional (ORAL Presenter):

Zubaidah T, Misbahuddin, Kanata B, Paniran, Rosmaliati, Yadnya MS, Riskia S (2018) Earth Magnetic Fields Evolution over Nusa Tenggara Region from Declination and Inclination Changes on Lombok Geomagnetic Observatory, The 2nd International Conference on Applied Electromagnetic Technology (AEMT) 2018, Engineering Faculty of University of Mataram, Lombok. (*IEEE Xplore Indexed*)

Kanata B, **Zubaidah T**, Paniran, Zainuddin A, Ramadhani C, Wiriasto GW, Akbar LASI, Riskia S (2018) Earth Magnetic Fields Evolution over Nusa Tenggara Region from Intensity and Spectral Density Changes on Lombok Geomagnetic Observatory, The 2nd International Conference on Applied Electromagnetic Technology (AEMT) 2018, Engineering Faculty of University of Mataram, Lombok. (*IEEE Xplore Indexed*)

Zubaidah T, Kanata B, Paniran, Yani A (2017), Static and Dynamic Magnetic Fields Scattering on a Mini Magneto-static Flux Manipulator for Wireless Power Transfer, International Symposium on Electrical Engineering on the 14th Quality in Research (QiR), Engineering Faculty of Universitas Indonesia, Denpasar. (*IEEE Xplore Indexed*)

Zubaidah T, Kanata B, Paniran, Wiriasto GW (2016) A Observation of geomagnetic fields changes related to 9th March 2016 solar eclipse on Lombok Island-Indonesia. The 7th Indonesia Japan Joint Scientific Symposium (IJSS), Chiba University, Japan.

Kanata B, **Zubaidah T**, Wiriasto GW, Paniran (2017) Correlation of Geomagnetic Signal for Earthquake Studies in Indonesia, Australia and Pasific Regions. International Seminar on Intelligent Technology and Its Application (ISITIA), Electrical Engineering Dept. of ITS, Lombok. (*SCOPUS Indexed*)

Wiriasto GW, Riskia S, Kanata B, **Zubaidah T** (2017) Enhancement of LOK-Viewer Based Interfaces Application for Geomagnetic Data Signal Processing using Differentiation Method. International Seminar on Intelligent Technology and Its Application (ISITIA), Electrical Engineering Dept. of ITS, Lombok. (*SCOPUS Indexed*)

Kanata B dan **Zubaidah T** (2015) Quiet Time Localization of Geomagnetic Data for Japanese Regions. International Symposium of Electrical and Computer Engineering on the 14th Quality in Research (QiR), Engineering Faculty of Universitas Indonesia, Lombok. (*SCOPUS Indexed*)

Zubaidah T, Kanata B, Paniran (2013), Magneto-Static Flux Manipulator Prepared for Future Geomagnetic Power Plant. The 13th Quality in Research (QiR) 2013, Engineering Faculty of Universitas Indonesia, Jogjakarta. (*SCOPUS Indexed*)

Zubaidah T, Kanata B, Ramadhani C, Irmawati B (2013), Comprehensive Geomagnetic Signal Processing for Successful Earthquake Prediction. The 13th Quality in Research (QiR) 2013, Engineering Faculty of Universitas Indonesia, Jogjakarta. (*SCOPUS Indexed*)

- Zubaidah T**, Korte M, Mandeia M, Utama W (2011) Geothermal potential of the Lombok island (new insights from geomagnetic investigations). International Conference on ICT Development in Indonesia, ITPP SNU Korea, Lombok.
- Zubaidah T**, Korte M, Mandeia M, Hamoudi M (2010) New tectonic insights along the Sunda-Banda arcs transition revealed from geomagnetic observations over the Lombok Island. Bali 2010 International Geosciences Conference and Exposition, The Indonesian Association of Geophysicists (HAGI) & SEG, Denpasar.
- Zubaidah T**, Korte M, Mandeia M, Hamoudi M, Kanata B (2007) Monitoring of the existence of High Intensity Geomagnetic Anomaly along the Java Trench: First Year Results. International Workshop on Seismo Electromagnetic (IWSEP), National Institute of Aeronautics and Space (LAPAN) & EMSEV, Bandung.