

CURRICULUM VITAE

[MUHAMAD YUSA]

DATE OF BIRTH: [JULY 1STY, 1975]

WORK EXPERIENCES

[July – Nov 2019]	[PT.BumiArtha Reka Perdana, Bandung] <i>[Geotechnical Engineer for Open Pit Coal Slope Stability, part-time]</i>
[Jan – July 2019]	[PT.Harista Karsa Mandiri, Pekanbaru] <i>[Geotechnical Engineer for Asia Pacific Yarn Project; Tahura Bridge, part-time]</i>
[Aug – Oct 2018]	[PT.Rifansi, Pekanbaru] <i>[Geotechnical Engineer for HIS Infrastructure Improvement Project, part-time]</i>
[Apr– Nov 2018]	[PT.Harista Karsa Mandiri, Pekanbaru] <i>[Geotechnical Engineer for PORSEA Pulp and Paper Project; Yarn Mill Project; BRI project; Futong bridge, part-time]</i>
[Apr– Dec 2017]	[PT.Harista Karsa Mandiri, Pekanbaru] <i>[Geotechnical Engineer for VANILLA Pulp and Paper extension Project; PORSEA development Project; Jetty design; Pekanbaru-Dumai Highway, part-time]</i>
[May – Jun 2016]	[PT.Harista Karsa Mandiri, Pekanbaru] <i>[Geotechnical Engineer for Futong Chipyard Storage Project, part-time]</i>
[May – Jun 2016]	[PT.Harista Karsa Mandiri, Pekanbaru] <i>[Geotechnical Engineer for Oil tank repair Project, part-time]</i>
[Feb – Apr 2016]	[PT.Prasadha Pamunah Limbah Industry, Bogor] <i>[Geotechnical Engineer for Dayun Landfill Project, part-time]</i>
[June – Dec 2015]	[PT.Harista Karsa Mandiri, Pekanbaru] <i>[Geotechnical Engineer for VANILLA Riau Pulp and Paper Project, part-time]</i>
[Sept – Dec 2015]	[PT.Wiranta Buana Raya, Bandung] <i>[Geotechnical Engineer for Rantau Prapat-Dumai Railway Track Review Design, part-time]</i>

E-MAIL:[MUHAMADYUSA@GMAIL.COM; M.YUSA@ENG.UNRI.AC.ID]

HOME ADDRESS:[JALAN MAHONI NO 160 KOMPLEK BERINGIN INDAH, PEKANBARU 28294, RIAU-INDONESIA]

HOME PHONE:[+627618412045] • MOBILE PHONE:[+6281221761562]

[July – Sept 2015]	[MyGeoteknik, Pekanbaru] <i>[Geotechnical Engineer for Soil investigation for Waterflood Facilities Upgrade Project, part-time]</i>
[2005– present]	[MyGeoteknik, Pekanbaru-Riau Province] <i>[Owner of Soil investigation (Driling/ SPT/ CPT), analysis and design company, full-time]</i>
[2007 – 2009]	[PT. Surveyor Indonesia, Pekanbaru-Riau Province] [Project Manager for Geotechnical and Survey Investigation Services of PT Chevron, part-time]
[2004 – 2009]	[Universitas Riau, Pekanbaru-Riau Province] <i>[Lecturer and Head of Soil Mechanic Laboratory, full-time]</i> <i>Involves in various soil investigation projects e.g.</i> - <i>Monitoring and Quality Control for Reclamation of Dumai Port Development Phase III</i> - <i>Monitoring & Quality Control of Ground Improvement For Trakindo New Facility Pekanbaru using Preloading & Vertical Drain</i> - <i>Slope reinforcement using geogrid for Taman Hutan Raya SSQ II</i> - <i>Sudirman-Nangka Flyover Project</i> - <i>Design and soil investigation for Road Repair North Duri Cogeneration Area</i> - <i>Riau Gas Power Plant 2x75MW</i> <i>etc</i>
[2001 – present]	[Universitas Riau, Pekanbaru-Riau Province] <i>[Lecturer in Geotechnical Engineering, full-time]</i>
[1998]	[Shimizu Maeda Bangun Tjipta, Curup-Bengkulu Province] <i>[Tunnel Engineer, full-time]</i>
[1997]	[Sagita Dumez Hutama Karya Joint Operation, Bandung] <i>[Quality Control Officer, part time]</i>

EDUCATION

[August 2015]	[University of Canterbury New Zealand] <i>[PhD in Geotechnical Engineering: Aging and Creep of Non-Plastic Silty Sand]</i>
[December 2000]	[University of Birmingham, UK] <i>[MSc in Foundation Engineering: Validation and Use of OASYS GEO]</i>
[April 1998]	[Bandung Institute of Technology] <i>[BEng in Civil Engineering majoring in Geotechnical: Effects of Seismic Frequency Content on Spectrum Response of Bandung City]</i>

LANGUAGE SKILLS

[Indonesia, English, Sundanese]

IT AND LABORATORY SKILLS

[SHAKE91, FLUSH, PLAXIS, OASYS-GEO, OPTUMG2 and

AWARDS

1. 1999-2000 Postgraduate scholarship Engineering Education Developement Project awarded **British Scholarship Scheme**
2. 2010-2013 Postgraduate scholarship Directorate of Higher Education Ministry of Education No 146/D4.4/PK, Indonesia
3. 2013-2015 **New Zealand Earthquake Commission (EQC) Capability Research Funding Project**
4. **2018- Newton Fund Research Link Travel Grants : University of Sheffield Visiting Researcher**

MEMBERSHIP AND COURSES

1. Certified/Registered Member (G1) of Indonesian Society of Geotechnical Engineer(HATTI) (2005-present)
2. Member of International Society of Soil Mechanic and Geotechnical Engineering
3. Member of Association of Earthquake Engineering Engineer of Indonesia (AARGI) (2016-present)
4. 2016 Workshop Continuous Professional Development (CPD) Geotechnical Engineer
5. October 2011 Internal Erosion of Embankment Dams and their Foundation, Workshop by New Zealand Society on Large Dams
6. December 2006 PLAXIS Standard Course
7. August 2005 Workshop Certification **Indonesian Society of Geotechnical Engineer (G1)**

PUBLICATIONS

1. [Yusa, M., Bowman, E.T., Nugroho, S.A., 2019, *Swedish Weight Sounding: A Prospective Portable Soil Investigation Tools for Liquefaction Assessment of Residential Houses in Indonesia*, 4th International conference on Earthquake Engineering and disaster Management, Padang
2. Yusa, M., Fatnanta, F, Riadi, A., 2019, Limit analysis of helical pile on soft soils, Annual Indonesian Geotechnical Society Meeting, Jakarta
3. Yusa, M., Sutikno, S, Damayanti, L., Sandyavitri, A., Dirga, F., Paramita, D., 2019, Resistivity and physical properties of Meranti's Peat, Universitas Riau International Conference on science and environmental (URICSE 2019), Pekanbaru
4. Yusa, M., Sandyaviri A., Sutiko, S., Application of electrical resistivity test to estimate carbon storage of tropical peat deposit (Case study of Bengkalis island), MATEC Web of Conferences 276, 05004 | vol: | issue : | 2019
5. Yusa, M., Bowman, E.T., Cubrinovski, M. , *Analysis of the Fabric of Unidisturbed and Pluviated Silty Sand under Load over Time*, European Journal of Civil and Environmental Engineering <https://doi.org/10.1080/19648189.2018.1541825>
6. Nugroho, S.A, Putra, A. I, Yusa, M , 2018, *Study gradation and moisture content of Sand Embankment on Peat Subjected to Vibration Potential Liquefaction*, IOP conference Series Material Sciences and Engineering , Vol. 316, 012033
7. Sigit Sutikno, Besri Nasrul, **Muhamad Yusa**, Rinaldi, Yesi,

- Chairul, Adhi Prayitno, Muhammad Akbar, Gevin Ardi Akbar, *Water Management for Integrated Peatland Restoration in Pulau Tebing Tinggi Peatland Hydrological Unit Riau*, Joint Symposium of Peatland Restoration, 22 February 2018, Jakarta, Indonesia
8. Sandyavitri, A., **Yusa, M.**, Fajri, M., Sutikno, S., Kohei, A., 2018, *Mapping and Simulating Watershed Performances Based on GIS, Remote Sensing, and SWAT*, Universal Journal of Geoscience Vol. 6(1), pp. 13 - 23
 9. Gábor Illés, Agus Kristijono, Gábor Szatmári, Ari Shandhyavitri, *László Pásztor*, Sigit Sutikno, Gábor Molnár, **Muhamad Yusa**, and Balázs Székely, 2018, *Mapping Indonesian peatlands by DSM techniques for the volumetric estimation of their carbon stock*, European Geoscience Union General Assembly, General 8-13 April 2018, Viena, Austria
 10. Tim Pusat studi Bencana, 2017 ***Pengembangan Model Sistem Tata Kelola Air untuk Restorasi Hidrologi dalam KHG PTT Kabupaten Kepulauan Meranti, Propinsi Riau: Pilot Project Implementasi dan Evaluasi Sekat Kanal***
 11. **Yusa, M.**, Bowman, E.T., Cubrinovski, M., 2017, *Observation of microstructure of silty sand obtained from gel push sampler and reconstituted sample*, Powders and Grains 2017, 3-7 July 2017, Montpellier, France
 12. **Yusa, M.**, Bowman, E.T., Cubrinovski, M., 2016, *Observation of creep following Ko consolidation of Loose silty sand*, Annual 20th Annual National Conference on Geotechnical Engineering, Conference, 15-16 November 2016, Jakarta
 13. **Yusa, M.**, Bowman, E.T., Cubrinovski, M., 2016, *Aging effect on One Way Cyclic Resistance of Loose Silty Sand*, International Conference on Earthquake Engineering and Disaster Mitigation, 1-2 August 2016, Bali
 14. **Yusa, M.** Aging and Creep of Non-Plastic Silty Sand, 2015, PhD Thesis, University of Canterbury
 15. **Yusa, M.**, Bowman, E.T., Cubrinovski, M. , 2013, *Quantification of time-dependent microstructural change of a silty sand under load*, Powders and Grains 2013, Sydney, Australia
 16. **Yusa, M.**, Bowman, E.T., Cubrinovski, M. , 2013, *Measurement and change in microstructure of loose silty sand due to ageing*, 2013, 18th Southeast Asia Geotechnical Conference, Singapore
 17. Nugroho, S.A., **Yusa, M.**, Ningsih, S.R., 2012, Prediction for CBR unsoaked value to soaked value and index properties of clay-sand mixture of Pekanbaru Soils, Proceeding of 8th International Symposium of Lowland Technology, Bali
 18. Damayanti, L., **Yusa, M.**, Ester, R.A, 2011, *Identifikasi Tanah tercemar Lindi di Tempat Pembuangan Akhir Sampah Muara Fajar dengan Metode Geolistrik*, Jurnal of Bumi Lestari Vol 11 No 2
 19. Nugroho, S.A., Nizam, K., **Yusa, M.**, 2010, *Perilaku Daya Dukung Ultimit Pondasi Dangkal di Atas Tanah Lunak yang diperkuat Geogrid*, Jurnal Media Teknik Sipil, Vol. X
 20. **Yusa, M.**, Nugroho, S.A., 2008, *Korelasi Pengujian Kepadatan Lapangan dan Statik Hand Penetrometer terhadap Hasil CBR Beberapa Jenis Tanah*, Jurnal Media Komunikasi Teknik Sipil Vol VIII, 2008
 21. **Yusa, M.**, Nugroho, S.A., 2007, *Evaluation of pile bearing capacity based on CPT compared to Pile Driving Analyzer*, Jurnal Media Komunikasi Teknik Sipil No. 1
 22. **Yusa, M.**, Nugroho, S.A., 2006, *Comparative study of Use of Dynamic Cone Penetrometer and Hand Cone Penetrometer for CBR determination*,

REFERENCES

- [Dr. Elisabeth T.Bowman] University of Sheffield, Department of Civil and Structural Engineering Lecturer Reader in Geomechanic
Telephone: +44 (0) 114 222 5747
Mobile: +44 7446437541
Email: e.bowman@sheffield.ac.uk
- [Hendra Jitno,Ir., MASc PhD] Principle Engineer-Tailings at Rio Tinto-Australia
Telephone: +61 736253000
Mobile: +61 401023161
Email: hendra.jitno@riotinto.com