

## **BRIEF CURRICULUM VITEA (CV)**

### **1. PERSONAL DATA**

Name : Ir. Dr. Taksiah A.Majid

Nationality : Malaysian

Current Position : Professor / Dean School of Civil Engineering,  
Universiti Sains Malaysia.

Qualification : Ph.D , 1996, The University of Liverpool, UK

Field of specialization : Earthquake Engineering, Wind Engineering and Industrialized Building  
System

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### **2. ACHIEVEMENTS**

On going grants : RUI, MRUN

Completed grants : 1 FRGS, 1 DEGrant, 2 RUI and 5 Short Term Grants

Graduated students : 12 PhD and 16 MSc

Postgraduate under supervision : 4 PhD and 1 MSc

Patents/ Copyrights/  
Filing : 1

Achievements/Awards /  
Recognitions : 5 Awards for Innovation and Academic

### **3. CURRENT AND PAST RELATED RESEARCHS:**

1. National Grant: Public awareness on Earthquake: Professionals, JKR – IKRAM Grant, RM 75 000, Assoc. Prof. Dr. Taksiah A.Majid (leader), Dr. Choong Kok Keong, Mr. Lau Tze Liang, Mr. Shaharudin Shah Zaini, July – Nov 2005.
2. National Grant: Establishment of Database of Existing Building for Seismic Hazard in Penang Island : Phase 1 – Building Irregularities and Soil Data Collecton, JKR Grant, RM 43 000, Assoc. Prof. Dr. Taksiah A.Majid (leader), Dr. Choong Kok Keong, Mr. Lau Tze Liang, Mr. Shaharudin Shah Zaini, Oct – Nov 2005.
3. National Grant: Seismic Hazard of Peninsular Malaysia for Structural Design Purpose", IRPA GRANT SEER-CIDB, RM 71,000, 15 Feb 2005 – 15 Feb 2007
4. National Grant: Influence of Vertical Earthquake on the Reinforced Concrete Buildings, FRGS (9003 – 00407), 5 Dec 2013 – 4 Dec 2015, RM70,000.00, Mohd Zulham Affandi Mohd Zahid, Fadzli Mohamed Nazri, Md. Hadli Abu Hassan, Taksiah A.Majid
5. University Grant: Seismic Hazard Analysis of the Pulau Pinang and Kuala Lumpur due to Sumatran Earthquakes, Short Grant USM , 1 April 2004 – 31 Mac 2006. RM 18,143.00, Assoc. Prof. Dr. Taksiah

- A.Majid (leader), Dr Megat Azmi Megat Johari, Dr Badorul Hisham Abu Bakar, Dr Choong Kok Keong, Dr Mohd Zaid Yusof.
6. University Grant: Vulnerability of Reinforced Concrete Tall Building due to Sumatran Earthquake, Short Grant USM , RM 13,610.00, Assoc. Prof. Dr. Taksiah A.Majid (leader), Mr. Shaharudin Shah Zaini, 15 Mac 2007 – 14 Mac 2009
  7. University Grant: Probabilistic Seismic Assessment of Reinforced Concrete Buildings in Sabah, Short Grant USM , RM 38,541.00, Assoc. Prof. Dr. Taksiah A.Majid (leader), Mr. Shaharudin Shah Zaini, Lau Tze Liang, 1 Jun 2010 – 31 Mei 2012
  8. University Grant: Ductility Demands of Inelastic Structures Affected By Repeated Earthquakes, Research University (RU), Cycle Jun 2010, RM 240,300.00 , Assoc. Prof. Dr. Taksiah A.Majid (leader), Assoc. Prof. Dr. Choong Kok Keong, Dr. LauTze Liang, Mr. Shaharudin Shah Zaini, 1 Jan 2011- 31 Dec 2013.
  9. Estimation of Probable Earthquake Ground Motion in Peninsular Malaysia, Research University (RU), Cycle Dec 2012, RM249,950.00, Dr. LauTze Liang (principal researcher), Assoc. Prof. Dr. Taksiah A.Majid, Assoc. Prof. Dr. Choong Kok Keong, Dr Fadzli Mohamed Nazri, Dr. Neeraj Bhardwaj, 15 Dec 2012- 14 Dec 2015.
  10. The Effect of Wind Load on Rural Roofing System, Assoc. Prof. Dr. Taksiah A.Majid (principal researcher), Assoc. Prof. Dr. Choong Kok Keong, Dr. LauTze Liang, APEX Grant, RM180,000.00, Nov 2012 – Oct 2014.
  11. Study on the Behaviour of Flexural Crack Growth of Steel Fiber Reinforced Concrete Associated with AE technique, Assoc. Prof. Dr. Taksiah A.Majid (leader), Assoc. Prof. Dr. Megat Azmi Megat Johari, Dr Norazura Muhamad Bunnori, RM156,400.00, 1 Dec 2013 – 30 Jun 2017.
  12. Determination of Wind Pressure Distribution Relationship for Various Configuration of Rural Houses using Computational Fluid Dynamics, FRGS Fasa 1/2015, Dr. Shaharudin Shah b. Zaini (leader), Assoc. Prof. Dr. Taksiah A.Majid, 2 Nov 2015 – 1 Nov 2017, RM119,500.00
  13. Taksiah A. Majid (leader), Fadzli Bin Mohamed Nazri, Shaharudin Shah Bin Zaini, Development of Connection System at the Overhang Roof of Rural Houses Subjected to High Wind Force , RM78,778.00, 01/05/2018-30/04/2021
  14. Taksiah A. Majid (leader), Intelligent Green Energy Landslide Real-Time Alerting System in the Tropics, RM 597,700.00, MRUN, 1 Sept 2019 – 31 Nov 2022

#### 4. SELECTED RESEARCH PUBLICATIONS:

1. Ramaji, A.E. and Majid, T.A. (2012), Study on Seismic Behaviour of Double Layer Cylindrical Space Truss, *Archives Des Sciences Journal* (ISSN: 1661-464X), Volume. 65, Issue. 7, pp110-119 M.Jamshidi, T. A. Majid, A. Darvishi and A. E. Ramaji (2012), Dynamic Study of Double Layer Lattice Domes, *Trends in Applied Sciences Research*, (ISSN: 1819-3579) Vol 7, No 3, 221-230
2. Mohd Zaid, M.Z.A., Majid, T.A., and Ade Faisal, (2012), Effect of repeated near field earthquake to the high-rise RC building, *Australian Journal of Basic and Applied Sciences (AJBAS)*, 6 (10), pp129-138
3. Jamshidi, M., Majid, T.A., Bunnori, N.M. and Darvishi, A. (2012), Review on Seismic Behaviour of slab-on-girder steel highway bridges, *Journal of Applied Sciences*, 12 (7), ISSN 1812-5654 / DOI : 10.3923/jas.2012.602-211
4. Tan, C.G., Majid, T.A., Ariffin, K.A. and Bunnori, N.M. (2013) Effects of Site Classification on Empirical Correlation between Shear Wave Velocity and Standard Penetration Resistance for Soils, *Applied Mechanics and Materials*, 284-287, ISSN 1660-9336, Scientific, pp. 1305-1310
5. Taghavipour, S, Majid, T.A. and Lau, T.L. (2013) Effect of Different Lateral Load Distribution on Pushover Analysis, *Australian Journal of Basic and Applied Sciences*, American-Eurasian Network for Scientific Information (AENSI), ISSN 1991-8187, 7(4), pp133-142
6. Taghavipour, S., Majid, T.A. and Lau, T.L. (2013) Assessment of Nonlinear Static (Pushover) Procedures using Time-History direct Integration Analysis, *Australian Journal of Basic and Applied Sciences*, American-Eurasian Network for Scientific Information (AENSI), ISSN 1991-8187 , 7(8), pp 468-479
7. Ade Faisal, Majid, T.A. and Hatzigeorgiou G.D. (2013) Investigation of Story Ductility Demands of Inelastic Concrete Frames subjected to Repeated Earthquakes, *Soil Dynamics and Earthquake Engineering*, ISSN 0267-7261, Vol. 44, Jan 2013, pp. 42-53
8. Daniel, R.T., Majid, T.A and Bambang B. (2013), Improvement of Seismic Performance of a Seven Story Steel Building with Hysteretic Steel Dampers under Severe Seismic Excitation, The 6th Civil Engineering Conference in The Asia Region (CECAR6), Asian Civil Engineering Coordinating Council (ACECC), 20-22 August 2013, Hotel Borobudur, Jakarta, Indonesia
9. Adiyanto, M.I. and Majid, T.A (2014), Seismic Design of Two Storey Reinforced Concrete Building in Malaysia with Low Class Ductility, *Journal of Engineering Science and Technology*, Vol. 9, No. 1 (2014), pp 27 – 46, ISSN 1823-4690 9 (1), School of Engineering, Taylor's University
10. Tan, C.G., Majid, T.A., Ariffin, K.S. and Bunnori, N.M. (2014), Seismic microzonation for Penang using geospatial contour mapping, *Natural Hazards*, Springer, Feb 2014, Vol 73 (2), pp 657-670
11. Ismail, D., Majid, T. A., Roosli, R., & N. Ab Samah (2014). Project Management Success for Post Disaster Reconstruction Projects: International NGOs Perspectives. *Procedia Economics and Finance*, (September), 18, p120-127

12. Majid, T.A., Adiyanto, M. I. and Nazri, F. M. (2014). Nonlinear Response of Low Rise Hospital RC Building in Malaysia due to Far and Near Field Earthquake. *Journal of Civil Engineering Research* 4(3A): p 130 - 134. doi:10.5923/c.jce.201402.23 (Scientific and Academic Publishing)
13. Tan, C. G., Majid, T. A., Ariffin, K. S. and Bunnori, N. M. (2014). The Effect of Site Classification on Incremental Dynamic Analysis for RC Buildings without Seismic Provision in Penang. *Journal of Civil Engineering Research* 4(3A): 154-158. doi:10.5923/c.jce.201402.23 (Scientific and Academic Publishing)
14. Daniel R.Teruna, Lukman, M, Majid, T. A. and Bambang Budiono. (2014). Evaluation of the Seismic Strengthening for RC Frame Building with Soft First Story using Hysteretic Steel Damper Subjected to Strong Earthquake. *Journal of Civil Engineering Research* 4(3A): 191-202. doi:10.5923/c.jce.201402.23 (Scientific and Academic Publishing)
15. Adiyanto, M.I., and Majid, T.A., (2014) Seismic Performance of Three Storey Hospital RC Frame Subjected to Multiple Earthquakes in Moderate Seismic Region, International Congress on Natural Sciences and Engineering (ICNSE 2014), Kyoto, Japan, 5-7 May 2014. p 619 – 626. ISBN 978-986-87417-8-2
16. Adiyanto, M.I., Majid, T.A., and Nazri, F.M., (2014) Cost Optimization of Seismic Design of Low Rise Hospital RC Frame in Malaysia, The 5<sup>th</sup> Asia Conference on Earthquake Engineering (5ACEE), p 115 – 123, Taipei, Taiwan, National Applied Research Laboratories, National Center for Research on Earthquake Engineering and National Taiwan University, 16-18 October 2014.
17. Daniel Teruna, Taksiah Majid and Bambang Budiono (2015), Experimental Study Of Hysteretic Steel Damper For Energy Dissipation Capacity, *Advances in Civil Engineering*, Vol 2015, Article ID 631726, 12 pages,doi: 10.1155/2015/631726 (Hindawi Publishing Corporation)
18. Nazri, F.M., Ghuan,T.C., Hussin, S.N. and Majid, T.A. (2015), Evaluation of soil flexibility of the reclaimed area in Penang using the non-destructive method, *Natural Hazards*, DOI 10.1007/s11069-015-1770-2
19. Daniel Teruna, Taksiah Majid and Bambang Budiono (2015), Numerical Models of Hysteretic Steel Plate Damper with a Hollow Diamond Shape for Energy Dissipation, *AWAM International Conference on Civil Engineering 2015 (eco-AICCE'15)*, Material Science and Engineering
20. Van, T.C., Lau, T.L., Majid, T.A., Choong, K.K., Nazri, F.M (2015), Modification of Published Prediction Model of Ground Motion due to Sumatra Subduction Earthquakes for the Application in Peninsular Malaysia, *AWAM International Conference on Civil Engineering 2015 (eco-AICCE'15)*, Material Science and Engineering
21. Jamshidi, M., Majid, T.A., Bunnori, N.M, (2015), Seismic Behaviour of Slab-on-girder Steel Bridges Equipped with Ductile Steel Infill Plate End Diaphragms, *International Journal of Steel Structures*, Vol. 15, Issue 2, pp 459-472, Springer
22. Noram I. Ramli, M. Idris Ali, T. A. Majid,Wan Chik F. A, Deraman S. N.C., Muhammad M. K. A (2015). Wind-related Disasters in Malaysia and Changes in Regulations and Practice, *Wind Engineers*, *JAWE* Vol.40, No.3(No.144), pp 290-293.
23. Majid, T. A, Wan Chik, F. A, Deraman, S. N. C. and Muhamad, M. K. A (2016). Past Windstorm Occurrence Trend, Damage, and Losses in Penang, *Journal of Engineering Science and Technology*, Vol. 11, No. 3 (2016) 397 – 406
24. Adiyanto, M.I, Majid, T.A., and Nazri, F.M. (2016). Comparison study of seismic design of RC frame in East Malaysia with various behavior factor. 13th International Conference on Concrete Engineering and Technology (CONCET2016), 31 May – 1 June 2016, IEM, UM, UiTM, Hotel UiTM Shah Alam
25. Majid, T.A., Adiyanto, M.I., and Tan. C.G. (2016), Nonstructural Damages of Reinforced Concrete Buildings due to 2015 Ranau Earthquake, The 3rd International Conference of Global Network for Innovative Technology 2016 (IGNITE-2016), *Advanced Materials for Innovative Technologies*, USM, TUT,NUT, KOSEN, 27-29 January 2016, Evergreen Laurel Hotel, Penang
26. Majid, T.A., Yahaya, A.S., Almaawali, S.S.S. and Tan. C.G. (2016), Statistical Prediction of Basic Wind Speed for Oman, The 2016 World Congress on Advances in Civil, Environmental and Materials Research (ACEM16), 28 August – 1 Sept 2016, ICC Jeju, Jeju Island, Korea
27. Majid, T.A., Zaini, S.S., Ismail, M.A., Deraman, S.N.C. and Jing. L.P. (2016), Numerical Investigation on the effect of overhang roof around rural house, The 2016 World Congress on Advances in Civil, Environmental and Materials Research (ACEM16), 28 August – 1 Sept 2016, ICC Jeju, Jeju Island, Korea.
28. Majid,T.A. and Adiyanto, M.I., (2016), Non linear time history analysis of RC Frame under multiple Earthquakes, Invited Speaker at 61st Congress of The Indian Society of Theoretical and Applied Mechanics (ISTAM), VIT University, Vellore, Tamilnadu, India, 11-14 Dec 2016
29. Mohd Zahid M.Z.A., Majid T.A., Faisal A.(2017), The effect of Behaviour Factor on the Seismic Performance of Low-Rise and High-Rise Buildings, *Journal of Engineering Science and Technology*, Vol. 12, No 1 (2017) 031-041, School of Engineering, Taylor's University.
30. Jamshidi, M., Majid, T.A. (2017), Seismic retrofit of slab-on-girder steel bridges, *Proceedings of the Institution of Civil Engineers - Structures and Buildings*, Vol 170 , Issue 7, July 2017, pp 521-531

31. S. S. Zaini, N. Rossli, T. A. Majid, S. N. C. Deraman, N. A. Razak (2018). Wind directional effect on a single storey house using educational wind tunnel facilities, *MATEC Web of Conferences*, 206, 01006
32. S. N. C. Deraman, T. A. Majid, S. S. Zaini, W. N. W. Yahya, J. Abdullah and M. A. Ismail (2018). Enhancement of CFD validation exercise along the roof profile of a low-rise building, *IOP Conference Series: Earth and Environmental Science*, 140, 012004
33. W. N. W. Yahya, S. S. Zaini, T. A. Majid, S. N. C. Deraman, M. A. Ismail (2018). CFD Simulation on the Pressure Distribution for an Isolated Single-storey Houses with Extension: Grid Sensitivity Analysis, *IOP Conference Series: Earth and Environmental Science*, 140, 012005
34. J. Abdullah, S. S. Zaini, M. S. A. Aziz, W. N. W. Yahya, T. A. Majid and S. N. C. Deraman (2018). CFD Prediction on the Pressure Distribution and Streamlines around an Isolated Single-Storey House Considering the Effect of Topographic Characteristics, *IOP Conference Series: Earth and Environmental Science*, 140, 012006
35. N.Z.N.Azizan, T.A.Majid, F.M. Nazri, (2018), Seismic Performance Of A Hydroelectric Dam Under Repeated Earthquakes, *Malaysian Construction Research Journal*, 24/1., 31-48
36. N.Z.N.Azizan, T.A.Majid, F.M. Nazri, D.Maity, J. Abdullah, (2018), Incremental Dynamic Analysis of Koyna Dam under Repeated Ground Motions, *Journal of Physics*.
37. S. N. C. Deraman, T. A. Majid, S. S. Zaini, W. N. W. Yahya, J. Abdullah and M. A. Ismail (2019). Numerical investigation on the air flow characteristics of a core house with the presence of kitchen house using Computational Fluid Dynamics. *National Colloquium on Wind & Earthquake Engineering, IOP Conf. Series: Earth and Environmental Science 244 (2019) 012030*
38. W. N. W. Yahya, S. S. Zaini, T. A. Majid, M. A. Ismail, S. N. C. Deraman and J. Abdullah (2019). Numerical investigation on the effects of wind direction to the air flow characteristics surrounding an isolated rural house. *National Colloquium on Wind & Earthquake Engineering, IOP Conf. Series: Earth and Environmental Science 244 (2019) 012031*
39. J. Abdullah, S. S. Zaini, M. S. Abdul Aziz, T. A. Majid, W. N. W. Yahya and S. N. C. Deraman (2019). CFD prediction of air flow characteristics along the profile of a rural house model located on different ridge terrain height. *National Colloquium on Wind & Earthquake Engineering, IOP Conf. Series: Earth and Environmental Science 244 (2019) 012008*
40. Wan Chik, F. A., Majid, T. A., Zakaria, S. A. S. (2019). Expert awareness of wind disaster risk reduction in Northern Peninsular Malaysia, *National Colloquium on Wind & Earthquake Engineering, IOP Conf. Series: Earth and Environmental Science 244 (2019) 012018*
41. Rashidi, A., Majid T. A. (2019). Impact of strong repeated ground excitation to the on-plan rotation of asymmetric building with various strength and stiffness eccentricities. *National Colloquium on Wind & Earthquake Engineering, IOP Conf. Series: Earth and Environmental Science 244 (2019) 012023*
42. Aktham H.Alani, N. Muhamad Bunnori, Ahmed Tareq Noaman,T.A.Majid (2019), Durability performance of a novel ultra-high-performance PET green concrete (UHPPGC), *Construction and Building Materials*, Volume 209, 10 June 2019, Pages 395-405
43. Saddam, H. A. S., Ramli, N.I., Majid, T.A., Zaini, S.S., (2020), Development of site-specific wind hazard map for peninsular Malaysia via spatial modeling, *Energies*, 2020, 13 (3), 729.
44. Bunnori, N.M., Alani, A.H., Noaman, A.T., Johari, M.A.M., Majid, T.A. (2020), Relationships between Compressive Strength and Transport Properties of Ultrahigh-Strength Green Concrete Utilizing Ternary-Blended Binder, *Journal of Materials in Civil Engineering*, 32(3),04020011
45. Jamaluddin, K., Chairullah, B., Irwandi, I., Majid, T. (2020), Approximation of Shear Wave Velocity Using MASW Method for Seismic Hazard Mitigation: A Preliminary Study of Banda Aceh City Indonesia, *IOP Conference Series: Materials Science and Engineering*, 712(1),012001
46. Syed Zakaria, S.A., Azimi, M.A., A. Majid, T. (2020), Underlying Disaster Risk Factors for Sustainable Coastal Development Projects in Malaysia, *Lecture Notes in Civil Engineering*, 53, pp. 343-360
47. Syed Zakaria, S.A., A. Majid, T., Lau, T.L., Azimi, M.A., (2020), Exploration of Training and Education for Attaining Disaster Resilience from Sustainability Perspective Among Civil Engineering Students, *Lecture Notes in Civil Engineering*, 53, pp. 361-376
48. Aktham H.Alani, N. Muhamad Bunnori, Ahmed Tareq Noaman,T.A.Majid (2020), Mechanical characteristics of PET fibre-reinforced green ultra-high performance composite concrete, *European Journal of Environmental and Civil Engineering*, Taylor & Francis Online, doi.org/10.1080/19648189.2020.1772117.