



# Prof. Pham Van Song

## Curriculum Vitae

### Education

- 2004–2009 **Dr.-Ing**, Technische Universität Berlin (TU Berlin), Germany, *Specialized in Civil Engineering.*
- 2002–2004 **Master of Science**, University of Stuttgart, Germany, *Specialized in Water Resources Engineering and Management.*
- 1994–1999 **Bachelor of Civil Engineering**, Hanoi Water Resources University, Vietnam, *Specialized in Hydraulic Construction.*

### Experience

- 2021–Present **Mien Dong University of Technology**, *President.*
- 2017–2021 **Vietnamese-German University**, *Vice President for Research.*
- 2013–2017 **Thuyloi University**, *Associate Professor, Vice President of Thuyloi University - Southern Campus, Vice - Director of Institute for Water and Environment Research, Head of Department of Civil Engineering.*
- 2009–2013 **Southern Institute of Water Resources Research**, *Deputy Director, Center for Hydraulic Engineering and Hydromechanics.*
- 2005–2009 **Technische Universität Berlin (TU Berlin)**, *Research Associate, Chair of Water Resources Management and Modeling of Hydrosystems.*
- 1999–2001 **Southern Institute of Water Resources Research**, *Research Associate, Center for Hydraulic Engineering and Hydromechanics.*

### Awards and Honors

- 2005 Berliner Nachwuchsförderung – NaFöG sponsorship for Researcher (2005-2007)
- 2001 MOET Scholarship – Postgraduate Scholarship in Germany
- 1999 Excellent Honor, Hanoi Water Resources University
- 1999 Loa-Thanh Award for Outstanding Graduation Thesis
- 1999 First Prize Award in Conference of Engineering Student in Hanoi Water Resources University

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- 1998 Gold Medal in University Informatics Olympiad
- 1997 Silver Medal in University Informatics Olympiad
- 1998 Consolidation Prize in National Informatics Olympiad

## Computer skills

- Basic C, C++, Adobe Illustrator, Data Sciences
- Intermediate PYTHON, HTML, L<sup>A</sup>T<sub>E</sub>X, OpenOffice, Linux, Microsoft Windows
- Advanced Mike 11, Mike 21, Mike Flood, Telemac

## Research Interests

Hydraulic Engineering, Hydrology, Erosion Control, Climate Change Adaption, Water Resources Management, AI for Water Resources Management

## Languages

- Vienamese **Mothertongue**
- English **Advance**
- German **Intermediate**

## Hobbies

- Badminton
- Chess
- Table Tennis
- Football
- Cooking
- Guitar

## Publication

1. Song Pham Van, Quang Thanh Dang, Thanh Dang Duc, Duong Tran Anh (2021): *Predicting water quality responses under climate change using coupled one- and two-dimensional models for Dong Nai River Basin*, Journal of Water Resources Science and Technology, ISSN: 1859-4255, Vol 64/02-2021
2. Song Pham Van, Hoang Minh Le, Dat Vi Thanh, Thanh Dang Duc, Ho Huu Loc, Duong Tran Anh (2020): *Deep learning Convolutional Neural Network in rainfall-runoff modeling*, Journal of Hydroinformatics, Vol. 23, <https://doi.org/10.2166/hydro.2020.095>
3. Song Pham Van, Xuan Bao Le, Ha Nguyen (2020): *Design a Real-time flood early warning system in the Dong Nai - Sai Gon river's lower basin*, Vietnam International Water Week 2020
4. Pham Van Song, Bui Thi Minh Ha, La Vinh Trung, Jean-Paul Vanderlinden (2019): *Vulnerability and flood risk analysis for urban area – A case study of Ho Chi Minh city*, 15th International Urbanization Conference: Urban Futures: Critical Transformation in Asian Cities
5. Tu Le Xuan, Thanh Vo, Johan Reyns, Song Pham Van, Duong Tran Anh, Thanh Duc Dang, Dano Roelvink (2019): *Sediment transport and morphodynamical modeling on the estuaries and coastal zone of the Vietnamese Mekong Delta*, Continental Shelf Research, Vol. 186,

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6. Duong Tran Anh, Song Pham Van, Thanh Dang Duc, Long Phi Hoang (2019): *Downscaling rainfall using deep learning Long Short-Term Memory and Feedforward Neural Network*, International Journal of Climatology, DOI: 10.1002/joc.6066
7. Duong Tran Anh, Thanh Dang Duc, Song Pham Van (2019): *Improved rainfall prediction using combined pre-processing methods and feed forward neural networks*, J Multidisciplinary Scientific Journal, J2019, Vol. 2, Issue 1, 65 - 83, DOI: 10.3390/j2010006
8. Makoto Tamura, Kazuya Yasuhara, Kiyotake Ajima, Van Trinh Cong, Song Van Pham (2018): *Vulnerability of climate change and its adaptation in the Mekong Delta: Monitoring and residents' perception survey along the coastal area in Soc Trang province, Vietnam*, International Journal of Global Warming, Vol. 16, No. 1, 2018, p. 102 - 117, DOI: 10.1504/IJGW.2018.094312
9. Pham Van Song, Trinh Cong Van (2016): *Identification of water supply adaptation areas for shrimp growing in Mekong delta*, Proceeding of Annual Conference on Water Resources, Thuyloi University, ISBN:978-604-82-0066-4
10. Pham Van Song, Trinh Cong Van (2016): *Water supply techniques for intensive shrimp in Mekong delta*, Journal of Water Resources & Environmental Engineering, ISSN 1859-3941, Vol 55/10-2016
11. Pham Van Song (2014): *Diseases polluted water transport in a aquaculture system with water supply and drainage combined channel - Propose models for adaptation*, Journal of Water Resources & Environmental Engineering, ISSN 1859-3941, Vol 46/9-2014
12. Pham Van Song (2014): *Simulation of flow over piano key weir using numerical and physical model - Case study for Dakmi2 weir*, Journal of Water Resources & Environmental Engineering, ISSN 1859-3941, Vol 45/6-2014
13. Pham Van, S., & Cu, N.T. (2014): *Modelling of flow over piano key weir - Parameter studies using numerical and physical simulation*, 19th IAHR-APD 2014 Congress, September 21 - 24, 2014, WRU, Hanoi, Vietnam
14. Pham Van Song (2014): *Development of V-shape baffles of stilling basin for large tidal barrier - Case study for Thu Bo barrier*, Journal of Water Resources Science and Technology, ISSN: 1859-4255, Vol 22/10-2014
15. Pham Van Song & Dinh Van Duy (2013): *Change of flow regime during construction of Thu Bo barrier*, Proceeding of Annual Conference on Water Resources, Thuyloi University, ISBN:978-604-82-0066-4
16. Pham Van Song, Dang Duc Thanh & Le Xuan Bao (2013): *Influence of flooding discharge for Dau Tieng spillway to Sai Gon river downstream*, Journal of Water Resources Science and Technology, ISSN: 1859-4255, Vol 19/12-2013

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17. Vu Hoang Thai Duong & Pham Van Song(2012): *Dissipation design in downstream of Thu Bo barrier by numerical and physical model*, Journal of Water Resources & Environmental Engineering, ISSN 1859-3941, Vol 37/6-2012
18. Pham Van Song, Trinh Cong Van (2011): *Urban flooding in Ho Chi Minh city: Problems and solutions*, The 4th SEA-EU-NET Stakeholders Conference, Hanoi
19. Nguyen Thanh Hai, Tang Duc Thang, Pham Van Song (2010): *Results of downstream transition of barrier in Mekong river delta*, Science and Technology Journal of Agriculture and Rural Development, ISSN 0866-7020, Vol.18/2010, pp 51-55
20. Nguyen Thanh Hai, Tang Duc Thang, Dinh Sỹ Quat, Pham Van Song (2010): *Determination of discharge capacity through the piano key weir*, Science and Technology Journal of Agriculture and Rural Development, ISSN 0866-7020, Vol.17/2010, pp 41-44
21. Pham Van, S., Hinkelmann, R., Nehrig, M. & Martinez, I. (2011): *A comparison of numerical and experimental simulations of water-gas flow processes through dikes with fault zones*, Engineering Applications of Computational Fluid Mechanics Vol. 5, No. 1, pp 149-158
22. Pham Van, S. & Hinkelmann, R. (2008): *Development and comparison of different model concepts for two-phase flow in fractured-porous Media*. Progress Reports, Fachgebiet Wasserwirtschaft und Hydrosystemmodellierung, Technische Universität Berlin
23. Stadler, L., Hinkelmann, R., Helmig, R. & Pham Van, S. (2006): *A comparison of model concepts for macropore infiltration*, 6. Workshop - Poröse Medien -, Eberhard Karls Universität Tübingen
24. Pham Van, S., Stadler, L. & Hinkelmann (2006): *Comparison of a micro-scale and a meso-Scale model concept for two-phase flow in fractured-porous media*, XVI International Conference on Computational Methods in Water Resources, Copenhagen, Denmark
25. Rouault, P., Nehrig, M., Pham Van, S. & Hinkelmann, R. (2006): *Zerstörungsfreie experimentelle und numerische Untersuchungen zur Schwachstellenanalyse in Deichen*, Sicherung von Dämmen, Deichen und Stauanlagen - Handbuch für Theorie und Praxis, Vol. II, Eigenverlag des Instituts für Geotechnik und des Forschungsinstituts Wasser und Umwelt, Siegen, pp. 109-115
26. Pham Van, S. & Hinkelmann, R. (2005): *Case Studies on Water Infiltration Processes in the Unsaturated Zone with a Multi-dimensional Multiphase Flow Model*, 5th International Symposium on Management of Aquifer Recharge, Berlin, IHP-VI, Series on Groundwater No. 13, Recharge Systems for Protecting and Enhancing Groundwater Resources
27. Pham Van, S. & Hinkelmann, R. (2005): *Development and Comparison of Different Model Concepts for Two-Phase Flow in Fractured-Porous Media - Application to Water Infiltration Processes in Hillslopes*. Progress Reports, Fachgebiet Wasserwirtschaft und Hydroinformatik,

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28. Pham Van, S., Busse, T. & Hinkelmann, R. (2004): *Modeling of Two-Phase Flow in Porous Media - Parameter Studies on Water Infiltration Processes*, 5. Workshop - Poröse Medien -, Eberhard Karls Universität Tübingen
29. Pham Van, S., Kobayashi, K. & Hinkelmann, R. (2004): *Numerical Simulation of Two-Phase Flow in Porous Media - Parameter Studies on Water Infiltration Processes in an Experimental Slope*, Young Water Research Journal, Vol. 1, pp. 58-64, YWAT, The Netherlands

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