

Curriculum Vitae

Phuong Dong Le

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Contact and personal

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DOB: April 04, 1983

Nationality: Vietnamese

Employment history

- **Thuyloi University (former Water Resources University)** 2006-present

Lecturer – Faculty of Water Resources Engineering, Division of Infrastructural Engineering and Rural Development

Teaching, and supervision of undergraduate student in the major of Water Resources Engineering

Education

- **PhD., Stochastic Hydrology** July 2018-July 2018

University of Adelaide, Australia

“A new flood estimation paradigm for the design of civil infrastructure systems”

Supervisors: Seth Westra and Michael Leonard

Awarded a Dean’s commendation for thesis excellence

Awarded the University Doctoral Research Medal

- **Master, Water Engineering and Management** August 2009-May2011

Asian Institute of Technology, Thailand

- **B.Eng., Irrigation and Drainage** September 2001-June 2006

Thuyloi University (former Water Resources University), Vietnam

Research interests

Applied statistics, Statistical Modeling of Extreme Values, Hydrological modelling

Software experience

R, C, HPC and parallel programming, MS Office, Endnote

Publications

Peer-reviewed journal papers

- **Le, P. D.**, Davison, A. C., Engelke, S., Leonard, M., and Westra, S.: Dependence properties of spatial rainfall extremes and areal reduction factors, *Journal of Hydrology*, 565, 711-719, <https://doi.org/10.1016/j.jhydrol.2018.08.061>, 2018.
- **Le, P. D.**, Leonard, M., and Westra, S.: Modeling Spatial Dependence of Rainfall Extremes Across Multiple Durations, *Water Resources Research*, 54, 2233-2248, doi:10.1002/2017WR022231, 2018.
- **Le, P. D.**, Leonard, M., and Westra, S.: Spatially dependent Intensity-Duration-Frequency curves to support the design of civil infrastructure systems, *Hydrol. Earth Syst. Sci. Discuss.*, <https://doi.org/10.5194/hess-2018-393>, in review, 2018.

Conference presentations

- **Le P.**, Leonard M, Westra S. Joint probability and conditional probability of flooding in complex systems, *EGU General Assembly 2018*. 12 Apr 2018 (Conference item)
- **Le P.**, Leonard M, Westra S. Conditional probability of rainfall extremes across multiple durations, *EGU General Assembly 2017*. 27 Apr 2017 (Conference item)
- **Le P.**, Leonard M, Westra S. Calibrating max-stable models of rainfall extremes at multiple timescales, *EGU General Assembly 2016*. 22 Apr 2016 (Conference item)
- **Le P.**, Leonard M, Westra S. Demonstration of max-stable models for estimating catchment flood risk, *21st International Congress on Modelling and Simulation*. Modelling and Simulation Society of Australia and New Zealand. 04 Dec 2015 (Conference item)

Scholarships and awards

- Australia Awards Scholarships to undertake PhD study.
- Swedish International Development Cooperation Agency (SIDA) to undertake Master study.
- The second prize in the “LOA THANH award” for the Excellent Bachelor Thesis in Architecture and Construction field in Vietnam - 2006
- The second prize in the Student Research Conference in Water Resources University, Ha Noi, Vietnam - 2006
- The “January Star” award of Vietnamese Student Association for students with excellent achievements in study and social activities - school year 2004-2005
- Certificate of Water Resources University for student with excellent achievements in study - school year 2004-2005
- Certificate of Ha Noi Students Union for students with excellent achievements in study and social activities in Ha Noi Capital - 2004
- The second prize in Theoretical Mechanics in the Olympic contest in Water Resources University, Ha Noi, Vietnam - 2003
- The consolation prize in Maths in Vietnam National Maths Olympic contest - 2002

- The first prize in Maths in the Olympic contest in Water Resources University, Ha Noi, Vietnam - 2002
- The first Prize in Physics in the Olympic contest in Ha Tinh - school year 2000-2001
- The third Prize in Maths in the Olympic contest in Ha Tinh - school year 1999-2000

Consulting experience

- Participating in *"Making map of potential inundation for Hanoi in considering impacts of Climate Change"*, Hanoi - June 2011 to June 2014.
- Participating in *"Environment protection planning for Cam Pha city, Quang Ninh province"*, Quang Ninh province - May 2012 to June 2014.
- Participating in *"Improving Cau Khai drainage system"* with total cost 6.0 million USD, Thanh Hoa province - 2006 to 2009
- Participating in *"Designing Hoang Khanh siphon in Hoang Khanh irrigation system"*, Thanh Hoa province - 2006 to 2009
- Participating in *"Improving rainwater drainage for Western Hanoi (Yen Nghia pumping station)"*, Hanoi - June 2011 to June 2014.
- Participating in *"Constructing Van Khe pumping station and drainage canal to drainage rainwater to Hong River at Me Linh district"*, Hanoi - June 2011 to June 2014.

Hobbies

- Reading
- Fishing
- Foreign currency exchange market

References

- **Seth Westra, Ph.D. Primary Supervisor**
Professor, University of Adelaide, Australia
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- **Michael Leonard, Ph.D. Secondary Supervisor**
Lecturer, University of Adelaide, Australia
michael.leonard@adelaide.edu.au