

CURRICULUM VITAE

PERSONAL INFORMATION

- Name : **Man V. M. NGUYEN**
- Gender : Male
- Date of birth : 17/03/1969
- Place of birth : My Tho city, Vietnam
- Citizenship : Vietnamese
- ID/passport number : 023669000
- Academic title : Lecturer, Ph.D.
- Affiliation : University of Technology (HCMUT), VNUHCM
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EDUCATION

- | | |
|---|-----------|
| Ph.D. in Statistics (Experimental Designs, Computational Statistics) | 2001-2005 |
| Eindhoven University of Technology, Eindhoven City,
The Netherlands | 1995-1997 |
| Master of Science in Pure Mathematics | |
| University of Natural Sciences (HCMUS), Vietnam National University –
Ho Chi Minh City | |
| Bachelor of Science in Mathematical Science (First class) | 1986-1990 |
| University of Education– Ho Chi Minh City | |

PROFESSIONAL EXPERIENCE

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|-------------|---|
| 1998 – 2000 | Lecturer in Applied Mathematics, at University of Technology (HCMUT) |
| 2001 – 2005 | Ph.D. student, Eindhoven University of Technology,
Eindhoven City, The Netherlands |
| 2006 – now | Lecturer in Statistics and Computational Mathematics
at University of Technology (HCMUT) |

DIPLOMAS

Languages: English			
Speaking	Listening	Reading	Writing
Fluent	Fluent	Fluent	Fluent

COURSES TAUGHT

Graduate courses taught, details include:

- at Faculty of Applied Science, HCMUT (2007-2010):
 - ⤴ Symbolic Computation,
 - ⤴ Advanced Linear Algebra,
 - ⤴ Mathematical Modeling and Simulation
- at Faculty of Computer Science and Engineering, HCMUT, VNU-HCM:
 - * Computational Algebraic Statistics
- at HCMC's University of Science, VNU-HCM, (2008-2009):
 - * Algorithm Analysis, and
 - * Computer Algebra.

Undergraduate courses taught, mostly for English speaking programs:

- at International University, VNU-HCM, English speaking program:
 - ⤴ Algorithmic Problem Solving (2007-2009, CSE joint with Nottingham)
 - ⤴ Probability, Statistics and Stochastic Processes (2011)
 - ⤴ Theoretic Models in Computing (2012)
- at Faculty of Information Tehnology, HCMUS, the Advanced Program in Computer Science, English speaking program, joint with Portland State University (2008-2012), topics are:
 - ⤴ Discrete Mathematics
 - ⤴ Applied Probability and Statistics for Engineers
- at Faculty of Electronic and Electrical Engineering, HCMUT, in the Power Engineering program, English speaking program, joint with University of Illinois at Urbana-Champaign (2009-2011):
 - * Numerical Methods for Engineers
- at University of Economics and Finance, HCMC Vietnam, (2009-2012):
 - * Calculus for Economists,
 - * Applied Statistics in Economics

RESEARCH INTERESTS

- **Topic 1: Experimental Designs**

Mathematical constructions of mixed orthogonal arrays.

- **Topic 2: Industrial Statistics**

- Usages of statistical designs in practical problems such as industrial manufacturing, environmental management, and software testing;

- discrete and probabilistic models (as Bayesian hierarchical modeling) for improving performance of complex processes

▪ **Topic 3: Operations Research**

statistical clustering, data analysis and optimization, applied in data dimensionality reduction of structural health monitoring, for predicting reliability and damage prognosis using very large data sets.

SELECTED PUBLICATIONS

- Man Nguyen, Tran Vinh Tan and Phan Phuc Doan, **Statistical Clustering and Time Series Analysis for Bridge Monitoring Data**, Recent Progress in Data Engineering and Internet Technology, LNEE 156, Springer-Verlag, 978-3-642-28806-7, 2013
- Hien Phan, Ben Soh and Man Nguyen, **A Parallelism Extended Approach for the Enumeration of Orthogonal Arrays**, ICA3PP 2011, Part I, LNCS 7016, pp. 482–494, Springer-Verlag Berlin Heidelberg, 2011
- Eric D. Schoen, Pieter T. Eendebak and Nguyen, Man V. M., **Complete Enumeration of Pure-Level & Mixed-Level Orthogonal Arrays**, Journal of Combinatorial Designs, 18(2) pp. 123 - 140, Wiley, 2010.
- Nguyen, Man V. M., **Some New Constructions of strength 3 Orthogonal Arrays**, the Memphis 2005 Design Conference Special Issue of the Journal of Statistical Planning and Inference, Vol 138/1, pp. 220-233, 2008.
- Brouwer, Andries E., Cohen, Arjeh M. and Nguyen, Man V. M., **Orthogonal arrays of strength 3 and small run sizes**, Journal of Statistical Planning and Inference, Vol 136, pp. 3268-3280, 2007.

OTHER ACTIVITIES

Activity	Time
* the Head of the Laboratory for Computational Mathematics & Statistics, hosted at HCM City University of Technology, supported by World Bank, a grant for research and development at VNU-HCM (see more info and activities at http://elearning.cse.hcmut.edu.vn/samgroup/)	2009-2011
* Visiting academic at Faculty of Information Science and Engineering, the University of Canberra, Canberra, Australia, October 1– 24, 2011;	2011
* Research exchange scientist at Faculty of Mathematical Sciences, Montana State University, MT, USA; August 8– 31, 2011	
* Visiting academic at Faculty of Information Science and Engineering, the University of Canberra, Canberra, Australia, December 26, 2010 – Jan 14, 2011.	