

## Curriculum Vitae of Mariko Yamamura

Name: Mariko Yamamura  
Nationality: Japanese  
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Address of Present Institution: Graduate School of Education  
Department of Mathematics Education  
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Status: Lecturer

### Education:

- Bachelor of Sciences, College of Integrated Arts and Sciences, Osaka Prefecture University, 1998.
- Master of Economics, Graduate School of Economics, Osaka Prefecture University, 2000.
- Doctor of Social Engineering, Graduate School of Systems and Information Engineering, University of Tsukuba, 2008.

### (Overseas)

Visiting scholar, Department of Statistical Sciences, University of Toronto, Canada. 24 March – 24 December 2012.

### Work Experience:

April 2004 – June 2006     Researcher, Institute for Health Economics and Policy  
April 2008 – March 2010     Assistant Professor, Department of Clinical Medicine, School of  
Pharmacy, Kitasato University  
April 2010 – March 2011     Assistant Professor, Graduate School of Business Sciences,  
University of Tsukuba  
April 2011 –                     Associate Professor, Department of Mathematics Education,  
(Present post)                     Graduate School of Education, Hiroshima University

### Field of Research:

Statistical science, Data analysis, Economics

## **Membership of Academic Societies:**

Japan Statistical Society, Japanese Society of Applied Statistics

## **List of Publications:**

### **Bulletin report:**

1. Yamamura, M. The bulletin report, (2005); Regular visits to a nursing care facility. *Institute for Health Economics and Policy*, Tokyo. (in Japanese)
2. Yamamura, M. The bulletin report, vol.1, (2005); the relation of elderly health and long-term care costs with the comprehensive survey of living condition of the people on health and welfare. *Institute for Health Economics and Policy*, Tokyo. (in Japanese)
3. Yamamura, M. The bulletin report, vol.2, (2005); the relation of elderly health and long-term care costs with the comprehensive survey of living condition of the people on health and welfare. *Institute for Health Economics and Policy*, Tokyo. (in Japanese)
4. Yamamura, M. The bulletin report, (2005); the Health data in Germany. *Institute for Health Economics and Policy*, Tokyo. (in Japanese)
5. Yamamura, M. The bulletin report, (2005); The chain of pharmacies cost. *Institute for Health Economics and Policy*, Tokyo. (in Japanese)
6. Yamamura, M. The bulletin report, (2005); The result of health examination and the health cost at the government-administered employment-based health insurance. *Institute for Health Economics and Policy*, Tokyo. (in Japanese)
7. Yamamura, M. The bulletin report, (2006); The result of health examination and the health cost at the government-administered employment-based health insurance. *Institute for Health Economics and Policy*, Tokyo. (in Japanese)
8. Yamamura, M. The bulletin report, (2006); the Health data in Germany. *Institute for Health Economics and Policy*, Tokyo. (in Japanese)

### **Papers:**

#### **(Peer review)**

1. Kondo,M, Yamamura, M., Hoshi S. & Okubo, I. Demand for pneumococcal vaccination under subsidy program for the elderly in Japan. *BMC Health Services Research*, 12:313, 2012.

2. Yamamura, M., Yanagihara, H. & Srivastava, M. S. Variable selection by  $C_p$  statistic in multiple responses regression with fewer sample size than the dimension. Knowledge-Based Intelligent Information and Engineering Systems: *Lecture Notes in Computer Science*, 14th International Conference, KES 2010, Cardiff, Wales, UK, September 8-10, Proceedings, Part III (eds. R. Setchi et al.), 7-14, Springer, Heidelberg.
3. Suzuki, N., Yamamura, M. & Tsuda, K. A study on traveling purpose classification method to extract traveling requests. Knowledge-Based Intelligent Information and Engineering Systems: *Lecture Notes in Computer Science*, 14th International Conference, KES 2010, Cardiff, Wales, UK, September 8-10, Proceedings, Part III (eds. R. Setchi et al.), 1-6, Springer, Heidelberg.
4. Yamamura, M. & Shoji, I. A nonparametric method of multi-step ahead forecasting in diffusion processes. *Physica A: Statistical Mechanics and its Applications*, 389, 2408-2415, 2010.
5. Yamamura, M., Yanagihara, H. & Srivastava, M. S. Variable selection in multivariate linear regression models with fewer observations than the dimension. *Japanese Journal of Applied Statistics*, 39(1), 1-19, 2010.
6. Yamamura, M. & Yanagihara, H. Ordering municipalities by medical cost efficiency under the Japanese national health insurance system using the stochastic cost frontier model. *American Journal of Mathematical and Management Sciences*, 29(3-4), 371-392, 2009.
7. Yamamura, M., & Yanagihara, H. Multivariate probit analysis based on comprehensive survey of living condition of the people on health and welfare: home long-term care utilization under national long-term care insurance system r. *Proceedings of the Institute of Statistical Mathematics*, 55(1), 125-142, 2007. (in Japanese).

**(Without peer review)**

1. Yamamura, M., Fukui, K. & Yanagihara, H. Illustration of the Varying Coefficient Model for Analyses the Tree Growth from the Age and Space Perspectives. Technical Report, Statistical Research Group, Hiroshima University, No.14-06, pp.1-11.
2. Fukui, K., Yamamura, M. & Yanagihara, H. Comparison with RSS-Based Model Selection Criteria for Selecting Growth Functions. Technical Report, Statistical Research Group, Hiroshima University, No.14-07, pp.1-12.
3. Yanagihara, H., Kamo, K., Imori, S. & Yamamura, M. A study on the bias-correction effect of the AIC for selecting variables in normal multivariate linear regression models under model misspecification. Technical Report, Statistical Research Group, Hiroshima University, No.13-04, pp.1-22.
4. Yoshida, A, & Yamamura, M. The Demand and Supply of Health Care before and after Elderly Health Care insurance assured. Discussion Paper Series, 1044, 1-25. Tsukuba University, 2003. (in Japanese)

## Conferences:

1. Yamamura, M. The Demand and Supply of Health Care before and after Elderly Health Care insurance assured. *Japanese Economic Association*. Tokyo, Japan (Meiji University).
2. Yamamura, M. Measuring the efficiency of the municipality-based public health insurance system in Japan. *International Conference on Statistics, Combinatorics, Mathematics and Applications and Twelfth International Conference of The Forum for Interdisciplinary Mathematics*. Auburn, Alabama, USA (Auburn University). 2-4 December 2005.
3. Yamamura, M. Measuring the efficiency of the municipality-based public health insurance system in Japan. *Hiroshima Statistics Study Group*. Hiroshima, Japan (Radiation Effects Research Foundation). 10 November 2006.
4. Yamamura, M. A nonparametric method of multi-step ahead forecasting in diffusion processes. Japanese Joint Statistical Meeting, Tokyo, Japan (Keio University). 7-10 September 2008
5. Yamamura, M. Variable selection in multivariate linear regression models with fewer observations than the dimension. 2009 Joint Statistical Meetings, Washington, DC. USA (Walter E. Washington Convention Center), 1-6 August 2009.
6. Yamamura, M. Variable selection in multivariate linear regression models with fewer observations than the dimension. Japanese Joint Statistical Meeting, Kyoto, Japan (Doshisha University). 6-9 September 2011.
7. Yamamura, M. Variable selection in multivariate linear regression models with fewer observations than the dimension. Japanese Joint Statistical Meeting, Fukuoka, Japan (Kyushu University). 4-7 September 2011.
8. Yamamura, M. Variable Selection by Cp Statistic in Multiple Responses Regression with Fewer Sample Size than the Dimension. 40th Annual Meeting of the Statistical Society of Canada, Guelph, Ontario. Canada (University of Guelph). 3-6 June 2012.
9. Yamamura, M. Variable Selection by Cp Statistic in Multiple Responses Regression with Fewer Sample Size than the Dimension. AISC 2012, International Conference on Advances in Interdisciplinary Statistics and Combinatorics, Greensboro, North Carolina, USA (University of North Carolina at Greensboro). 10-12 October 2012.

## Rewards:

Yamamura, M. Variable Selection in Multivariate Linear Regression Models with Fewer Observations than the Dimension. Encouraging research paper prize, Japanese Society of Applied Statistics, 2011.

**Industry-university cooperation:**

Yamamura, M. Evaluation about inspection method for checking randomness of lottery numbers. Japan Sport Council (JSC). 1 August – 31 December 2014.

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