

## 業績目録(宇佐美慧)

### a. 外国語による論文・著書(分担執筆を含む)(全42本中英文雑誌27本)

27. **Usami, S.** (in press). Generalized sample size determination formulas for evaluating contextual effects in three-level data. *Psychometrika*.

26. **Usami, S.** (in press). Bayesian longitudinal paired comparison model and its application to sports data using weighted likelihood bootstrap. *Communications in Statistics - Simulation and Computation*.

25. Kanehara, A., Araki, T., **Usami, S.**, Kuwabara, H., Kano, Y., Kasai, K., Ando, S. (accepted). Trends in psychological distress and alcoholism after The Great East Japan Earthquake of 2011. *SSM - Population Health*.

24. **Usami, S.**, Hayes, T., & McArdle, J.J. (accepted). Fitting structural equation model trees and latent growth curve mixture models in longitudinal designs: The influence of model misspecification in estimating the number of classes. *Structural Equation Modeling*.

23. Fujikawa, S., Ando, S., Shimodera, S., Koike, S., **Usami, S.**, Toriyama, R., Kanata, S., Sasaki, T., Kasai, K., Okazaki, Y., Nishida, A., (accepted). The association of current violence from adult family members with adolescent bullying involvement and suicidal feelings. *PLoS ONE*.

22. Kanata, S., Koike, S., Ando, S., Nishida, A., **Usami, S.**, Yamasaki, S., Morimoto, Y., Toriyama, R., Fujikawa, S., Sugimoto, N., Sasaki, T., Furukawa, T., Hasegawa, M., & Kasai, K. (accepted). Enuresis and hyperactivity-inattention in early adolescence: Findings from a population-based survey in Tokyo (Tokyo Early Adolescence Survey). *PLoS ONE*.

21. Yamasaki, S., Ando, S., Koike, S., **Usami, S.**, Endo, K., French, P., Sasaki, T., Furukawa, T., Hasegawa-Hiraiwa, M., Kasai, K., & Nishida, A. (2016). Dissociation mediates the relationship between peer victimization and hallucinatory experiences among early adolescents. *Schizophrenia Research: Cognition*, 4, 18-23.

20. Todo, N., & **Usami, S\***. (2016). Fitting finite mixture models in longitudinal design: A recommendation for model selection and estimation of the number of classes. *Structural Equation Modeling*, 23, 695-712. (\*Corresponding author: both authors contributed equally to this work)

19. Fujisato, H., Ito, M., Takebayashi, Y., Hosogoshi, H., Kato, N., Nakajima, S., Miyamae, M., Oe, Y., **Usami, S.**, Kanie, A., Horikoshi, M. & Berking, M., (accepted). Reliability and validity of the Japanese version of the emotion regulation skills questionnaire. *Journal of Affective Disorders*, 208, 145-152.

18. Yamasaki, S., Ando, S., Shimodera, S., Endo, K., Okazaki, Y., Asukai, N., **Usami, S.**, Nishida, A., & Sasaki, T. (2016). The recognition of mental illness, schizophrenia identification, and help-seeking from friends in late adolescence. *PLoS ONE*, 11, e0151298.

17. **Usami, S.**, Sakamoto, A., Naito, J., & Abe, Y. (2016). Developing pairwise preference based personality test and experimental investigation of its resistance to faking effect by item response model. *International Journal of Testing*, 16, 288-309.

16. Kakei, Y., Akashi, M., Hasegawa, T., Minamikawa, T., **Usami, S.**, & Komori, T. (2016). Incidence of venous thromboembolism after oral oncologic surgery with simultaneous reconstruction. *Journal of Oral and Maxillofacial Surgery*, 74, 212-217.

15. Adachi, S., Ikeda, Y., Satake, T., **Usami, S.**, Sunahara, N., & Notoya, S. (2016). A survey of the development of syntactic comprehension in neurotypical infants. *Journal of the*

*Tsuruma Health Science Society. 39, 51-61.*

**14.** Tochigi, M., **Usami, S.**, Matamura, M., Kitagawa, Y., Fukushima, M., Yonehara, H., Togo, F., Nishida, A., & Sasaki, T. (2015). Annual longitudinal survey at up to five time points reveals reciprocal effects of bedtime delay and depression/anxiety in adolescents. *Sleep Medicine, 17*, 81-86. (The first three authors equally contributed to this work)

**13.** Hayes, T., **Usami, S.**, Jacobucci, R & McArdle, J.J. (2015). Using classification and regression trees (CART) and random forests to analyze attrition: Results from two simulations. *Psychology and Aging, 30*, 911-929.

**12.** **Usami, S.**, Hayes, T., & McArdle, J.J. (2015). Inferring longitudinal relationships between variables: model selection between the latent change score and autoregressive cross-lagged factor models. *Structural Equation Modeling, 23*, 331-342.

**11.** **Usami, S.**, Hayes, T., & McArdle, J.J. (2015). On the mathematical relationship between latent change score model and autoregressive cross-lagged factor approaches: Cautions for inferring causal relationship between variables. *Multivariate Behavioral Research, 50*, 676-687.

**10.** Nishida, A., Shimodera, S., Sasaki, T., Richards, M., Hatch, S.L., Yamasaki, S., **Usami, S.**, Ando, S., Asukai, N., & Okazaki, Y. (2014). Risk for suicidal problems in poor-help-seeking adolescents with psychotic-like experiences: Findings from a cross-sectional survey of 16,131 adolescents. *Schizophrenia Research. 159*, 257-262.

**9.** **Usami, S.** (2014). Performances of information criteria for model selection in a latent growth curve mixture model. *Journal of the Japanese Society of Computational Statistics. 27*, 17-48.

**8.** **Usami, S.** (2014). Constrained  $k$ -means on cluster proportion and distances among clus-

ters for longitudinal data analysis. *Japanese Psychological Research*, 56, 361-372.

7. Matamura, M., Tochigi, M, **Usami, S.**, Yonehara, H., Fukushima, M., Nishida, A., Togo, F., & Sasaki, T. (2014). Associations between sleep habits and mental health status and suicidality in the longitudinal survey of monozygotic-twin adolescents. *Journal of Sleep Research*, 23, 290-294. (The first three authors equally contributed to this work)

6. **Usami, S.** (2014). A convenient method and numerical tables for sample size determination in longitudinal-experimental research using multilevel models. *Behavior Research Methods*, 46, 1207-1219.

5. **Usami, S.** (2013). Generalized sample size determination formulas for experimental research with hierarchical data. *Behavior Research Methods*, 46, 346-356.

4. **Usami, S.** (2011). Generalized graded unfolding model with structural equation for subject parameters. *Japanese Psychological Research*, 53, 221-232.

3. **Usami, S.** (2011). Statistical power of experimental research with hierarchical data. *Behaviormetrika*, 38, 63-84.

2. **Usami, S.** (2010). Individual differences multidimensional Bradley-Terry model using reversible jump Markov chain Monte Carlo algorithm. *Behaviormetrika*, 37, 135-155.

1. **Usami, S.** (2009). Applying Gibbs sampler to multivariate hierarchical linear model. *Proceedings of the World Academy of Science, Engineering and Technology*, 54, 340-342.

**b. 国際学会・海外学会での発表・講演等**

22. **Usami, S.** (2016). Sample size determination for CRTs with randomization at any level.

*Paper presented at the 81st Annual Meeting of Psychometric Society. Asheville, North Carolina, USA.*

**21.** Kimpara, S., Regner, E., **Usami, S.**, & Beutler, L.E. (2015). Systematic Treatment Selection (STS): How to monitor therapists' interventions and cross-cultural differences between North America and Argentina. *2015 APA Annual Convention.*

**20.** **Usami, S.**, Hayes, T., McArdle, J.J. (2015). Inferring longitudinal relationships between variables: Model selection between the latent change score and autoregressive cross-lagged factor models. *Paper presented at the 80th Annual Meeting of Psychometric Society. Beijing Normal University, China.*

**19.** **Usami, S.** (2015). Introduction to R. University of Reading, UK, Feb 2,4,6.

**18.** Sugimoto, M., Nishida, A., Toriyama, R., Koike, S., Morimoto, Y., Kanata, S., Fujikawa, S., Masaoka, M., & **Usami, S.** (2015). Early exposure to social networking service increase children's drive for thinness. *Paper presented at the Society for Adolescent Health and Medicine, Los Angeles, CA.*

**17.** **Usami, S.**, Hayes, T., McArdle, J.J. (2014). On the Relationship between Latent Change Score Model and Autoregressive Cross-Lagged Factor Approaches and Cautions for Assessing Longitudinal Relations between Variables. *Paper presented at the 79th Annual Meeting of Psychometric Society. Madison, Wisconsin, USA.*

**16.** **Usami, S.** (2014). Why Simulation? -Actual practices in behavioral and psychological research- Presented at the university of Southern California, GC3 Lecture, SGM 718, Feb 12.

**15.** Kimpara, S., Holt, H., & **Usami, S.**, (2013). Systematic treatment selection: How to improve therapists' interventions. *2013 APA Annual Convention.*

14. **Usami, S.** (2013). Generalized sample size determination formulas for experimental research with hierarchical data. *Paper presented at the 78th Annual Meeting of Psychometric Society*. Arnhem, Netherland.
13. Akiyama, H., Sugawara, I., **Usami, S.**, Liang, J., & Kamiyama, S. (2013). Health trajectories over 20 years: Effects of education, income and gender. *The 20th IAGG World Congress of Gerontology and Geriatrics*, Seoul, Korea, 6.23-27.
12. **Usami, S.** (2012). Investigation of mixture-modeling and some non-hierarchical clustering methods to detect heterogeneous developmental trajectories in longitudinal data analysis. *Paper presented at the JCS-CLADAG (CLAssification and Data Analysis Group) 12*. Anacapri, Italy.
11. **Usami, S.** (2012). Multivariate mean-based mixture modelling in longitudinal data analysis. *Paper presented at the 26th International Biometric Conference*. Kobe, Japan.
10. **Usami, S.** (2012). Reliability and validity of essay tests under different testing and scoring designs: a simulation study. *Paper presented at the 30th International Congress of Psychology*. Cape Town, South Africa.
9. **Usami, S.** (2012). Exploratory non-hierarchical cluster analysis for pre-post designs. *Paper presented at the 77th Annual Meeting of Psychometric Society*. Nebraska, USA.
8. **Usami, S.** (2011). On the relationship between the true number of components and needed sample size for finite mixtures in some factor analysis models. *Paper presented at the 5th Annual International Conference on Mathematics & Statistics*. Athens, Greece.
7. **Usami, S.** (2011). Estimation of the unknown number of components in latent growth curve mixture model. (Invited Symposium) Paper Presented at the 76th Annual Meeting of Psychometric Society. The Hong Kong Institute of Education, Hong Kong.

6. **Usami, S.** (2010). Sample size determination for experimental studies with hierarchical data. *Paper presented at the 19th International Conference on Computational Statistics*, Paris, France.
5. **Usami, S.** (2010). Statistical power of experimental research with hierarchical data. *Paper presented at the 75th Annual Meeting of Psychometric Society*. Georgia, USA.
4. **Usami, S.** (2010). Individual differences multidimensional Bradley-Terry model using reversible jump markov chain monte carlo algorithm. *Paper presented at the International Congress of Applied Psychology*. Melbourne, Australia.
3. **Usami, S.** (2009). Statistical analysis of essay test data: Investigation of measurement problems with controlling length of essays. *Paper presented at the 74th Annual Meeting of Psychometric Society*. Cambridge, England.
2. **Usami, S.** (2009). Applying Gibbs sampler to multivariate hierarchical linear model. *International Conference of Behavioral and Psychological Science*. Paris, France.
1. **Usami, S.** (2008). Generalized graded unfolding model with manifest variable. *Paper presented at the 73rd Annual Meeting of Psychometric Society*. New Hampshire, USA.

### c. その他の国際的な業績

国際誌における論文査読

AERA Open

Austin Journal of Nanomedicine and Nanotechnology

Behaviormetrika

Behavior Research Methods

Child Development  
Educational and Psychological Measurement  
Japanese Psychological Research  
Journal of Applied Statistics  
Journal of Personality  
Journal of the Japan Statistical Society  
Open Access Journal of Clinical Trials  
Open Access Medical Statistics  
Psychometrika  
Scientia Iranica  
Statistics in Medicine  
The Open Psychology Journal

海外派遣に関する研究費取得状況

3. Dispatched program for the promotion of international joint research, University of Tsukuba.

(2016 年度)

2. Dispatched program for the promotion of international joint research, University of Tsukuba.

(2015 年度)

1. Dispatched program for the promotion of international joint research, University of Tsukuba.

(2014 年度)