

# CURRICULUM VITAE

## Satoshi Usami, Ph.D.

Associate Professor, University of Tokyo

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on Transition from Secondary to Higher Education,  
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**E-mail:** usami\_s@p.u-tokyo.ac.jp  
**Home Page:** <http://satoshiusami.com/index>  
**Date of Birth:** 09/27/1984 (33 years old)  
**Nationality:** Japanese

**Research interests:** longitudinal data analysis, structural equation modeling, item response theory, missing data, model selection, causal inference, recursive partitioning, decision tree, sample size determination, experimental design, statistical power, psychological scaling, Bayesian data analysis, computational statistics, educational measurement, development of educational, psychological, medical and clinical tests.

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### 1. FORMAL EDUCATION

*April 2013—March 2014* **Postdoctoral**, University of Southern California (with John, J, McArdle)  
*April 2012—March 2013* **Postdoctoral**, Tokyo Institute of Technology (with Shin-ichi Mayekawa)  
*March 2012* **Ph.D.**, University of Tokyo. (advisor Tomokazu Haebara)  
*March 2009* **M.A.**, University of Tokyo. (advisor Tomokazu Haebara)  
*March 2007* **B.A.**, University of Nagoya. (advisor Hiroyuki Noguchi)

### 2. PROFESSIONAL POSITIONS AND TEACHING

*April 2017—present* **Part-time instructor**, Graduate School of Education, University of Tokyo.  
*April 2017—present* **Associate Professor**, Center for Research and Development on Transition from  
Secondary to Higher Education, University of Tokyo.  
*April 2016—March 2017* **Part-time instructor**, Department of Education, University of Tokyo.  
*April 2016—March 2017* **Part-time instructor**, Graduate School of Sociology, Toyo University.  
*December 2015—December 2017* **Honorary Research Fellow**, University of Reading, UK (with Dr. Kou Murayama).  
*September 2015* **Visiting Researcher**, Utrecht University, Netherlands (with Dr. Ellen Hamaker).  
*September 2015—December 2015* **Part-time instructor**, Graduate School of Education, University of Tokyo.  
*September 2015—December 2015* **Part-time instructor**, Department of Education, University of Tokyo.  
*October 2014* **Visiting Scholar**, Tokyo Metropolitan Institute of Medical Science.  
*September 2014—September 2015* **Honorary Research Fellow**, University of Reading, UK (with Dr. Kou Murayama).  
*April 2014—March 2017* **Associate Professor**, Dept of Psychology, Faculty of Human Sciences,  
University of Tsukuba.  
*April 2012—March 2013* **Japan Society for the Promotion of Science (JSPS) research fellow (PD)**  
*April 2009—March 2013* **Teaching assistant**, department of psychology, University of Senshu.  
*April 2009—March 2012* **Japan Society for the Promotion of Science (JSPS) research fellow (DC1)**  
*April 2009—March 2012* **Part-time instructor**, department of psychology, University of Komazawa.  
*July 2008—February 2012* **Instructor**, department of Education, University of Tokyo.

### 3. RESEARCH GRANT ACTIVITY

- December 2016—January 2017* **Dispatched program for the promotion of international joint research,**  
University of Tsukuba (525,000 Japanese yen)
- April 2016—March 2019* **JSPS KAKENHI of Grant-in-Aid for Young Scientists B.** (3,770,000 Japanese yen)  
Developing a robust method to model misspecification in longitudinal data analysis:  
Applications to educational and developmental psychology.
- December 2015—January 2016* **Dispatched program for the promotion of international joint research,**  
University of Tsukuba (560,000 Japanese yen)
- September 2014—March 2016* **JSPS KAKENHI for Research Activity Startup.** (2,730,000 Japanese yen)  
Development of classification method for longitudinal data and its application to educational and developmental psychological data.
- August 2014—February 2015* **Dispatched program for the promotion of international joint research,**  
University of Tsukuba (1,000,000 Japanese yen)
- April 2012—March 2015* **JSPS KAKENHI Grant Number (PD, 24 · 5868)** (3,600,000 Japanese yen)  
Methodological investigation of latent change score model and its applications for longitudinal data analysis.
- April 2009—March 2012* **JSPS KAKENHI Grant Number (DC1, 21 · 6892)** (2,800,000 Japanese yen)  
Practical investigation for operation of essay-type test -Investigation of measurement problems and development of data analysis method-
- April 2007—March 2009* **Scholarship from Benesse Corporation** (500,000 Japanese yen)

#### 4. AWARDS AND HONORS

- September, 2017* **Distinguished Young Researcher Award for International Research,** Japanese Psychological Association
- August, 2017* **Hayashi-Chikio excellence award,** The Behavior Metric Society for Japan
- November, 2014* **Excellent paper award,** The Japanese Association of School Health
- November, 2012* **Excellent paper award,** The Japanese Association of Educational Psychology
- September, 2011* **Hidano-Tadashi · Mizuno Kinji incentive award,** The Behavior Metric Society for Japan
- July, 2011* **Kido incentive award,** The Japanese Association of Educational Psychology
- May, 2010* **Student research presentation award,** The Japanese Society of Computational Statistics
- December, 2009* **Presentation Award,** The Japan Association of Research on Testing
- November, 2009* **S-plus user conference student presentation award,**
- May, 2009* **Student research presentation award,** The Japanese Society of Computational Statistics

#### 5. PROFESSIONAL PUBLICATIONS

##### Books and Book Chapters in Japanese and Translations

- 16. Usami, S. M. Lovric (Ed.)** (2011). International Encyclopedia of Statistical Science. Editorial Board of "International Encyclopedia of Statistical Science" in Japan Statistical Society. (Translation of "Moderating and Mediating Variables in Psychology", "Psychological Testing Theory", "Psychology, Statistics in").
- 15. Usami, S.** (in press). Meta analysis structural equation modeling/Meta analysis for correlation and actual example. In Okada, R. & Onodera, T. (Ed). *Introduction to Meta Analysis* (In Japanese) Nakanishiya Publication.
- 14. Usami, S.** (2017). Reviews of Data Science Methodology and Introduction to R courses into Japanese for IBM Big Data University.
- 13. Okada, K., & Usami, S.** (in press). Latent Variable Modeling. (In Japanese) Iwanami Publishing Co.

12. **Usami, S.** (2016). Translation of Data Science Methodology course into Japanese for IBM Big Data University.
11. **Usami, S.** (in press). Growth curve modeling and longitudinal factor analysis by Ram, N., & Grimm, K.J. In R.M. Lerner/Ninomiya, K., Koyasu, M. translation supervisor. *Handbook of Child Psychology and Developmental Science*, Wiley.
10. **Usami, S.** (2017). Sample size determination for developmental and educational psychology. In Murai, J. & Hashimoto, T. (Ed). *Introduction to the method of sample size determination in psychological research*. Kodansha.
9. **Usami, S.** (2017). Classification of longitudinal data by decision tree and structural equation modeling tree. In Shojima, K. (Ed). *Psychometrics in personality psychology*.
8. **Usami, S.** (2016). Revision process of the test/Reliability and Validity of the test. In Ueno, K., Nagoshi, N., & Asahide Research Institute for Mentally retarded. *S-M social ability test (3rd ed)*. Nihon Bunka Kagakusha Co., Ltd.
7. **Usami, S.** (2015). Reliability and validity in developing psychological scales and tests. In Yamada, T. (Ed). *Psychological Research Method by R*.
6. **Usami, S.** & Shojima, K. (2015). *Hattatsushinnrigakunotamenotoukei (in Japanese)* Seishin-Shobo. (Statistics for developmental psychology -longitudinal data analysis-)
5. J.D. Singer & J.B. Willett/ Sugawara, M. translation supervisor (2014). *Applied longitudinal data analysis*. Asakura Publishing Co., Ltd. (Section 13.3, 15.3, 15.4).
4. **Usami, S.** (2013). Validity and Reliability of FOSCOM. In Tohkawa, T., **Usami, S.**, Ui, M., Kajinawa, H., Komori, K., & Tanaka, R. *Format of observation for social communication (FOSCOM)* Escor Co.
3. **Usami, S.** (2013). Reliability and validity of the test. In Satake, T., Adachi, A., Ikeda, Y., & **Usami, S.** *HIRAGANA test for children based on sign-significate relations (HITSS)* Escor Co.
2. **Usami, S.** (2012). Making process of Asahide-Social Adaptive Skills Test. In Hidano, T. ed, Asahide Research Institute for Mentally retarded (2012). *ASA Asahide-Social Adaptive Skills Test*. Nihon Bunka Kagakusha Co., Ltd.
1. **Usami, S.** (2011). Bayesian Estimation of Multivariate Location Parameter/Bayesian Modeling in the Wavelet Domain. In D.K. Dey & C.R. Rao/Sigemasu, K., Kishino, H., Omori, Y. translation supervisor *Handbook of Statistics 25* Asakura Publishing Co., Ltd.

## Peer-Reviewed Articles

57. **Usami, S.**, Murayama, K., & Hamaker, E.L. (to be submitted). A unified framework of cross-lagged longitudinal models.
56. **Usami, S.**, Jacobucci, R., & Hayes, T. (submitted). Performance of latent growth model based structural equation model trees to uncover population heterogeneity.
55. **Usami, S.** (submitted). Confidence interval-based sample size determination formulas and some mathematical properties for hierarchical data.
54. ..., **Usami, S.**, ... (submitted). ...
53. ..., **Usami, S.**, ... (submitted). ...
52. ..., **Usami, S.**, ... (submitted). ...
51. Itokawa, M., Miyashita, M., Arai, M., Dan, T., Takahashi, K., Tokunaga, T., Ishimoto, K., Toriumi, K., Ichikawa, T.,

- Horiuchi, Y., Kobori, A., **Usami, S.**, Yoshikawa, T., Amano, N., Washizuka, S., Okazaki, Y., & Miyata, T. (in press). Pyridoxamine, a novel treatment for schizophrenia with enhanced carbonyl stress. *Psychiatry and Clinical Neurosciences*.
50. Yamasaki, S., **Usami, S.**, Sasaki, R., Koike, S., Ando, S., Kitagawa, Y., Matamura, M., Fukushima, M., Yonehara, H., Foo, J.C., Nishida, A., Sasaki, T., (in press). The association between changes in depression/anxiety and trajectories of psychotic-like experiences over a year in adolescence. *Schizophrenia Research*.
49. Usami, S. (2017). Education for psychometrics. *Kokoronokagaku*, 196, 24-27. Nippon Hyoron Sha co.,Ltd (In Japanese).
48. Endo, K., Ando, S., Shimodera, S., Yamasaki, S., **Usami, S.**, Okazaki, Y., Sasaki, T., & Nishida, A. (2017). Preference for solitude, social isolation, and suicidal behaviours in adolescents. *Journal of Adolescent Health*. in press.
47. **Usami, S.** (submitted). Inferring longitudinal changes and relations from multivariate cross-sectional data: A time-invariant score and two-stage multiple imputation.
46. **Usami, S.**, & Murayama, K. (in revision). Random time errors in growth curve modeling: Type-1 error inflation and a possible solution with mixed-effects models.
45. 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.
44. Kanehara, A., Araki, T., **Usami, S.**, Kuwabara, H., Kano, Y., Kasai, K., Ando, S. (2016). Trends in psychological distress and alcoholism after The Great East Japan Earthquake of 2011. *SSM - Population Health*, 2, 807-812.
43. **Usami, S.** (2016). Statistical methods for clinical epidemiology. Investigating causal relationship through longitudinal data and within-person correlation (In Japanese). *Seishinka*, 29, 513-518.
42. Ito, A., & **Usami, S.**, (2017). Revising the Classroom Climate Inventory for junior high school students second version. *Japanese Journal of Educational Psychology*, 65, 91-105. (In Japanese)
41. **Usami, S.**, Hayes, T., & McArdle, J.J. (2017). 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*, 24, 585-598.
40. 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*.
39. 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*. <http://dx.doi.org/10.1371/journal.pone.0158786>
38. 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.
37. **Usami, S.** (2016). Development and management of essay-type test (2): Development of essay-type test. —A quality of test from the point of view of reliability and validity—. *Shiken to Kenshu*, 29, 10-15. (In Japanese)
36. **Usami, S.** (2016). Development and management of essay-type test (1): What is a "good test"? —A concept of

reliability and validity—. *Shiken to Kenshu*, 28, 18-22. (In Japanese)

35. **Usami, S.** (2016). Recent advances in measurement, evaluation and research methods for educational psychology -Reconsideration of issues for a shortage of experts and education in psychometrics and necessity of "development of experts by experts"- (in press). *The Annual Report of Educational Psychology in Japan*, 55, 83-100. (In Japanese)
34. **Usami, S.** (in press). The issues of Structural Equation Model Trees (SEM Trees) and model misspecification. *Japanese Journal of Computational Statistics*. (In Japanese)
33. 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)
32. **Usami, S.**, (2016). Generalized sample size determination formulas for evaluating contextual effects in three-level data. *Psychometrika*, 82, 133-157.
31. 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.
30. **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.
29. 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.
28. 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.
27. 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)
26. 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.
25. **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.
24. **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.
23. **Usami, S.** (2015). Bayesian longitudinal paired comparison model and its application to sports data using weighted likelihood bootstrap. *Communications in Statistics - Simulation and Computation*.
22. 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.

21. **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.
20. **Usami, S.** (2014). Constrained  $k$ -means on cluster proportion and distances among clusters for longitudinal data analysis. *Japanese Psychological Research*, 56, 361-372.
19. 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)
18. **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.
17. **Usami, S.** (2013). Generalized sample size determination formulas for experimental research with hierarchical data. *Behavior Research Methods*, 46, 346-356.
16. Matamura, M., **Usami, S.**, Fukushima, M., Yonehara, H., Togo, F., Nishida, A., & Sasaki, T. (2013). Longitudinal relationship between sleep habits and mental health status in adolescents. *Japan Journal of School Health*, 55, 186-197. (In Japanese)
15. Tohkawa, T., **Usami, S.**, Ui, M., Kajinawa, H., Komori, K., & Tanaka, R. (2013). Development of the Format of Observation for Social Communication (FOSCOM). *Japanese Journal of Speech, Language and Hearing Research*, 10, 142-151. (In Japanese)
14. **Usami, S.** (2013). Measurement Problems and Their Treatments in Essay-Type Tests. *The Japanese Journal for Research on Testing*, 9, 145-164. (In Japanese)
13. **Usami, S.** (2012). A quantitative comparison of various factors for reliability of essay-type test. *Japan Journal of Educational Technology*, 36, 451-464. (In Japanese)
12. **Usami, S.** & Sugawara, I. (2012). A Longitudinal Investigation of Some Physical Traits of the Japanese Old Using Latent Curve Models –Analysis of Japanese Longitudinal Study Data Using MCMC Method– *Japanese Journal of Behaviormetrics*, 39, 43-65. (In Japanese)
11. **Usami, S.** (2011). A Unified Method for Determining Sample Size Needed to Evaluate Mean Difference in Hierarchical Research Design and Construction of Numerical Table. –Focusing on statistical power and confidence interval of effect size- *Japanese Journal of Educational Psychology*, 59, 385-401. (In Japanese)
10. **Usami, S.**, & Nagoshi, N. *et al.*, (2011). Developing Social Adaptive Skills Test -Investigation of reliability, validity and clinical usability for the test- *Japanese Journal of Educational Psychology*, 59, 278-294. (In Japanese)
9. **Usami, S.** (2011). Generalized graded unfolding model with structural equation for subject parameters. *Japanese Psychological Research*, 53, 221-232.
8. **Usami, S.** (2011). Statistical power of experimental research with hierarchical data. *Behaviormetrika*, 38, 63-84.
7. **Usami, S.** (2011). Statistical analysis of essay test data - Investigation of measurement problems by controlling length of essays- *Japanese Journal of Behaviormetrics*, 38, 33-50. (In Japanese)
6. **Usami, S.** (2010). Individual differences multidimensional Bradley-Terry model using reversible jump Markov chain Monte Carlo algorithm. *Behaviormetrika*, 37, 135-155.
5. **Usami, S.** (2010). Polytomous Item Response Model That Considers Bias Factors about Raters and Examinees Simultaneously –Estimation through MCMC algorithm- *Japanese Journal of Educational Psychology*, 58, 163-175. (In

Japanese)

**4. Usami, S.** (2009). Applicability of neural test theory -Discussing methodological problems and applying a polytomous model- *The Japanese Journal for Research on Testing*, 5, 65-79. (In Japanese)

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

**2. Usami, S.** (2008). Analyzing paired-comparison data in the situation where judgement is affected by multiple factors: Approach from the Bradley-Terry model. *The Japanese Journal of Psychology*, 79, 536-541. (In Japanese)

**1. Usami, S.** (2008). What factor moderates the effect of handwriting quality on essay test scoring -Investigation by meta-analysis and experiment- *The Japanese Journal for Research on Testing*, 4, 73-83. (In Japanese)

## 6. PRESENTATIONS

### Invited Talks

**23. Usami, S.** (2017). A specified debater of "Interpretation of regression coefficients". University of Kurume, September, 21.

**22. Usami, S.** (2017). Recent advances in longitudinal data analysis. University of Kurume, September, 21.

**21. Usami, S.** (2017). Theory and application of hierarchical linear model. University of Kyoto, June, 16.

**20. Usami, S.** (2016). Introduction to longitudinal data analysis. Tutorial seminar at 58th meeting of Japanese Association of Educational Psychology. Takamatsu, Oct, 9.

**19. Usami, S.** (2016). Sample size determination in developmental and educational psychology. After Conference of 25th meeting of Japan Society of Personality Psychology. Kwansei Gakuin University. Sep, 16.

**18. Usami, S.** (2016). Reconsidering statistical methods and reproducibility. Seminar of social psychology of University of Tsukuba, Nagatoro, Aug, 19.

**17. Usami, S.** (2015). Using global mind set scales and some relevant issues. 2nd national council of super global high school, Dec, 2.

**16. Usami, S.** (2015). Development of essay tests. Japan Center for Examination Research, Dec, 1.

**15. Usami, S.** (2015). Several measurement issues and its solutions in developing essay test. National Center for University Entrance Examinations. Nov 17.

**14. Usami, S.** (2015). Statistical classification by decision tree. Nikka whisky building Nov, 9.

**13. Usami, S.** (2015). A measurement issue in developing essay tests -reliability, validity and bias- Japan Personnel Testing-service Association. Jun, 16.

**12. Usami, S.** (2015). Current situations surrounding children. -Promoting understanding and support-. Psychological tests and theory of psychological measurement. Course for teaching credential in 2015, University of Tsukuba, Jun, 6.

**11. Usami, S.** (2015). Introduction to R (1)-(3). University of Reading, UK, Feb 2,4,6.

**10. Usami, S.** (2014). Assumption of independence of data and determining survey an dexperimental design. 14th colloquium at University of Tsukuba, Nov, 26.

**9. Usami, S.** (2014). Mediation analysis, multilevel SEM and meta analysis. Symposium of 56th Japanese society of Educational Psychology. Kobe, Nov, 8.

8. **Usami, S.** (2014). Classification of subjects by decision tree -focusing longitudinal data- Seminar of social psychology of University of Tsukuba. Nasu, Aug 23.
7. **Usami, S.** (2014). My research activity: past, present, future. Brown Bag, University of Tokyo, Jul 2.
6. **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.
5. **Usami, S.** (2013). Necessity of writing skill and its evaluation -Problems in essay tests. A symposium by The Japan Association of Research on Testing.
4. **Usami, S.** (2012). Writing of doctor thesis. Graduate School of Education, University of Tokyo.
3. **Usami, S.** (2012). A review of measurement problems in essay tests and procedures to enhance its "quality". Benesse Corporation.
2. **Usami, S.** (2012). A Longitudinal Investigation of Some Physical Traits of the Japanese Old Using Latent Curve Models. 21st luncheon seminar at Graduate School of Decision Science and Technology, Tokyo Institute of Technology.
1. **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.

### International Conferences

20. **Usami, S.** (2017). A unified framework of cross-Lagged longitudinal models. *Paper presented at the 82nd Annual Meeting of Psychometric Society.* Zurich, Switzerland.
19. **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.
18. 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.*
17. **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.
16. 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.
15. **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.
14. Kimpara, S., Holt, H., & **Usami, S.**, (2013). Systematic treatment selection: How to improve therapists' interventions. *2013 APA Annual Convention.*
13. **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.
12. 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.

11. **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.
10. **Usami, S.** (2012). Multivariate mean-based mixture modelling in longitudinal data analysis. *Paper presented at the 26th International Biometric Conference*. Kobe, Japan.
9. **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.
8. **Usami, S.** (2012). Exploratory non-hierarchical cluster analysis for pre-post designs. *Paper presented at the 77th Annual Meeting of Psychometric Society*. Nebraska, USA.
7. **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.
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.

## 7. PROFESSIONAL SERVICE

### Ad hoc Journal Reviewer

Clinical Epidemiology (2017-)

British Journal of Mathematical and Statistical Psychology (2017-)

Sleep Health (2017-)

Japan Journal of Educational Technology (2017-)

The Open Psychology Journal (2016-)

AERA Open (2016-)

Scientia Iranica (2016-)

Bulletin of data analysis of Japanese Classification Society (2016-)

Journal of Personality (2016-)

Child Development (2015-)

Statistics in Medicine (2015-)  
Open Access Medical Statistics (2015-)  
Educational and Psychological Measurement (2015-)  
Japanese Journal of Applied Statistics (2015-)  
Japanese Journal of Psychology (2015-)  
Japanese Journal of Educational Psychology (2015-)  
Journal of University Entrance Examination Research (2014-)  
Open Access Journal of Clinical Trials (2014-)  
Japanese Psychological Research (2014-)  
Journal of the Japan Statistical Society (2014-)  
Journal of Applied Statistics (2014-)  
Austin Journal of Nanomedicine and Nanotechnology (2013-)  
Psychometrika (2013-)  
Behavior Research Methods (2012-)  
Japanese Journal of Behaviormetrics (2012-)  
Behaviormetrika (2009-)  
The Japanese Journal for Research on Testing (2009-)

**Professional Affiliations**

Psychometric Society  
Japan Statistical Society (JSS)  
The Biometric Society for Japan  
The Behavior Metric Society for Japan  
The Japanese Society of Computational Statistics (JSCS)  
The Japan Association of Research on Testing  
The Japan Society for Education Technology  
The Japanese Association of Educational Psychology  
The Japanese Psychological Association  
Biostatistical Research Association