

## Curriculum Vitae

### Seungho Ryu, Ph.D

#### I. EDUCATION AND EXPERIENCE

##### A. Educational Background

2021-Present	University of Idaho – Moscow, ID Post-doctoral Fellow WWAMI Medical Program at University of Idaho
2017-2021 (Transfer)	University of Mississippi – Oxford, MS PhD: Health and Kinesiology Specialization: Health Behavior and Promotion Minor: Interdisciplinary Graduate Minor in Applied Statistics Advisor: Minsoo Kang, PhD, FACSM
2015-2016	Middle Tennessee State University – Murfreesboro, TN PhD: Human Performance Specialization: Kinesmetrics (Measurement and Evaluation) Advisor: Minsoo Kang, PhD, FACSM
2011-2013	Seoul National University – Seoul, South Korea MS: Physical Education Advisor: Yeonsoo Kim, MD, PhD
2003-2009	Kyungsoong University – Busan, South Korea BA: Physical Education Advisor: Jongjin Park, PhD

##### B. Academic Positions

2021-Present	Post-doctoral Fellow – WWAMI Medical Program, University of Idaho
2019- 2021	Statistical Consultant ; Research & Analytics Lab, School of Applied Sciences, University of Mississippi
2017-2021	Graduate Teaching Assistant – Department of Health, Exercise Science, and Recreation Management, University of Mississippi
2016-2017	Measurement and Statistical Consultant ; Kinesmetrics Consulting Lab, Department of Health and Human Performance, Middle Tennessee State University

- Provided statistical consulting services for faculty, students, and staff.
- Provided tutoring services involving statistical measures for doctoral, masters, and undergraduate students.

2015-2017 Graduate Teaching Assistant – Department of Health and Human Performance, Middle Tennessee State University

### C. Awards/Honors

2020 Measurement & Evaluation Graduate Student of the Year Award, SHAPE America

2017 1<sup>st</sup> Place in Scholar's Week Graduate Poster Competition, College of Behavioral and Health Sciences, Middle Tennessee State University  
: Cross-validation of the developed obesity cut-off points for Korean adults

### D. Professional Memberships

2016 Korean Alliance for Health, Physical Education, Recreation, and Dance

2015 Korean Society for Measurement and Evaluation in Physical Education and Sports

2015-2021 Society of Health and Physical Educators – SHAPE America (f. AAHPERD)

2011-2021 American College of Sports Medicine (ACSM)

## II. RESEARCH: PUBLICATIONS

### A. Thesis/Dissertation Title

**Ryu, S.** (2021). Psychometric Evaluation of Memory and Concentration Sections in the Standardized Assessment of Concussion. The University of Mississippi, Oxford, USA.

**Ryu, S.** (2013). The effect of combined exercise on physical fitness and depression symptom in patients with schizophrenia, Seoul National University, Seoul, Korea.

### B. Refereed Journal Articles Published (N= 20)

1. Jung, M., Kim, H., Loprinzi, P.D., **Ryu, S.**, & Kang, M. (2022). Age-varying association between depression and cognitive function among a national sample of older U.S. immigrant adults: The potential moderating role of physical activity. *Aging & Mental Health*, 1-10. Doi: 10.1080/13607863.2022.2056139
2. Jung, M., **Ryu, S.**, Kang, M., Javadi, A-H., & Loprinzi, P.D. (2021). Evaluation of the Transient Hypofrontality Theory in the context of exercise: Systematic review with meta-analysis. *Quarterly Journal of Experimental Psychology*. Doi: 10.1177/17470218211048807.
3. Jung, M., Kim, H., **Ryu, S.**, & Kang, M. (2021). Secular Trends in Physical Activity among Immigrants in the United States, 2009 to 2018. *Journal of Physical Activity & Health*. Doi: 10.1123/jpah.2020-0812.
4. Moore, D.C., **Ryu, S.**, Loprinzi, P.D. Experimental Effects of Acute Exercise on

Forgetting (2020). *Physiology International*. Doi: 10.1556/2060.2020.00033

5. **Ryu, S.**, Loprinzi, P.D., Kim, H., Kang, M. (2020). Sedentary Behavior and Obesity in Youth According to Meeting Physical Activity Guidelines: National Health and Nutrition Examination Survey, 2003-2006. *Childhood Obesity*. Doi: 10.1089/chi.2019.0213.
6. **Ryu, S.**, Loprinzi, P.D., Kim, H., Kang, M. (2020). Temporal Trends in the Association between Participation in Physical Education and Physical Activity among U.S. High School Students, 2011-2017. *International Journal of Environmental Research and Public Health*, 17(7), 2357. Doi: 10.3390/ijerph17072357
7. Jung, M., Zou, L., Yu, J. J., **Ryu, S.**, Kong, Z., Yang, L., ... & Loprinzi, P. D. (2020). Does Exercise Have a Protective Effect on Cognitive Function under Hypoxia? A Systematic Review with Meta-Analysis. *Journal of Sport and Health Science*. Doi: 10.1016/j.jshs.2020.04.004
8. Papini, N.M., Kang, M., **Ryu, S.**, Griese, E., Wingert, T., & Herrmann, S.D (2020). Rasch calibration of the 25-item Connor-Davidson Resilience Scale. *Journal of Health Psychology*. Doi: 10.1177/1359105320904769
9. Loprinzi, P.D., Franklin, J., Farris, A., & **Ryu, S.** (2019). Handedness, grip strength, and memory function: considerations by biological sex. *Medicina*, 55(8), 444. Doi: 10.3390/medicina55080444
10. Kim, K. M., Kim, J. S., Cruz-Díaz, D., **Ryu, S.**, Kang, M., & Taube, W. (2019). Changes in spinal and corticospinal excitability in patients with chronic ankle instability: A systematic review with meta-analysis. *Journal of Clinical Medicine*, 8(7), 1037. Doi: 10.3390/jcm8071037
11. **Ryu, S.**, Kim, H., Kang, M., Pedisic, Z., & Loprinzi, P.D. (2019). Secular trends in sedentary behavior among high school students in the United States, 2003-2015. *American Journal of Health Promotion*, 1-8. Doi: 10.1177/0890117119854043
12. Loprinzi, P.D., Blough, J., Crawford, L., **Ryu, S.**, Zou, L., & Li, H. (2019). The temporal effects of acute exercise on episodic memory function: Systematic review with meta-analysis. *Brain Sciences*, 9(4), 87. Doi: 10.3390/brainsci9040087
13. Frith, E., **Ryu, S.**, Kang, M., & Loprinzi, P.D. (2019). Systematic review of the proposed associations between physical exercise and creative thinking. *Europe's Journal of Psychology*, 15(4). 858-877. Doi: 10.5964/ejop.v15i4.1773
14. **Ryu, S.**, Frith, E., Pedisic, Z., Kang, M., & Loprinzi, P.D. (2019). Secular trends in the association between obesity and hypertension among adults in the United States, 1999-2014. *European Journal of Internal Medicine*. Doi: 10.1016/j.ejim.2019.02.012
15. Loprinzi, P.D., Blough, J., **Ryu, S.** & Kang, M. (2019). Experimental effects of exercise on memory function among mild cognitive impairment: Systematic review and meta-analysis. *The Physician and Sportsmedicine*, 47(1), 21-26. Doi: 10.1080/00913847.2018.1527647

16. **Ryu, S.**, Shivappa, N., Veronese, N., Kang, M., Mann, J.R., Hebert, J.R., Wirth, M.D., & Loprinzi, P.D. (2018). Secular trends in dietary inflammatory index among adults in the United States, 1999-2014. *European Journal of Clinical Nutrition*, 73, 1343-1351. Doi: 10.1038/s41430-018-0378-5
17. Williams, C., Stone, R., & **Ryu, S.** (2018). Source of Stress in sport: A Rasch Calibration. *Journal of Public Health Issues and Practices*, 2(121), 1-6.
18. Kim, H, Mun, J., **Ryu, S.**, & Kang, M. (2017). Validation of Korean of International Physical Activity Questionnaire: construct-related validity. *The Korean Journal of Physical Education*, 56(2), 605-616. Doi: 10.23949/kjpe.2017.03.56.2.44
19. Mun, J., Kim, H., **Ryu, S.**, & Kang, M. (2016). Development of a model to estimate body fat percentage using decision-tree analysis. *The Korean Journal of Physical Education*, 55(5), 675-685.
20. **Ryu, S.**, Song, B., Kim, Y., & Kwon, H. (2015). The Effect of combined exercise on physical fitness and depression symptom in patients with schizophrenia. *Korean Journal of Adapted Physical Activity*, 49(4), 39-48.

### C. Manuscripts under Review in Refereed Journals

1. **Ryu, S.**, Casanova, M., Moore, J., Cady, A.C. & Baker, R.T. Many-Faceted Rasch Calibration of the Foot Function Index-Revised Short Form. (In review – JSR)
2. Casanova, M.P., Reeves, A., Moore, J., **Ryu, S.**, Palmer, K., Smith, L.S., Seegmiller, J.G. & Baker, R.T. Evaluating the Impact of a Project ECHO Pediatric Behavioral Health Series in a Rural and Frontier State: An Exploratory Investigation. (In review)
3. **Ryu, S.**, Richardson, R., Cady, A.C., Reeves, A., Casanova, M.P. & Baker, R.T. Rasch Calibration for the International Knee Documentation Committee Subjective Knee Form (IKDC-SKF). (In review – JSR)
4. Moore, J.D., Casanova, M.P., **Ryu, S.**, Smith, L.H. & Baker, R.T. Examining ECHO Idaho's Perinatal Substance Use Disorder Pilot Program. (In review)
5. Richardson, R.D., Casanova, M.P., Reeves, A., **Ryu, S.**, Cady, A.C., & Baker, R.T. Evaluating the psychometric properties of the International Knee Documentation Committee Subjective Knee Form. (In review)

## III. RESEARCH: PRESENTATIONS (N= 17)

1. **Ryu, S.**, Jung, M., & Kang, M. (2021, May). Psychometric Evaluation of Memory Section in the Standardized Assessment of Concussion from the SCAT5. To be presented at the ACSM national conference.

2. Jung, M., Kim, H., **Ryu, S.**, & Kang, M. (2021, May). Secular Trends in Physical Activity among Immigrants in the United States, 2009 To 2018. To be presented at the ACSM national conference.
3. Kang, M., Kim, H., **Ryu, S.**, & Jung, M. (2021, April). Scale Adaption in Exercise and Sport Sciences. To be presented at the SHAPE America virtual national conference.
4. **Ryu, S.**, Kim, H., Loprinzi, P., & Kang, M. (2020, May). The Mediating effect of Physical Activity on Relationship between Sleep and Weight Status. Online presented at the ACSM national conference because of COVID-19.
5. Kim, H., **Ryu, S.**, & Kang, M. (2020, May). Identifying Threshold of Daily Sedentary Behavior Time For Prevention of Obesity. Online presented at the ACSM national conference because of COVID-19.
6. **Ryu, S.**, Kim, H., Loprinzi, P., & Kang, M. (2020, April). Temporal Trends in the Association between Participation in Physical Education and Physical Activity Among High School Students in the United States, 2011-2017. Online because of COVID-19 at the SHAPE America national conference
7. **Ryu, S.**, Kim, H., Loprinzi, P., & Kang, M. (2019, May). Temporal trends of physical activity in high school students in the United States, 2011-2017. Paper presented at the ACSM national conference, Orlando, FL.
8. **Ryu, S.**, Kim, H., Loprinzi, P., & Kang, M. (2019, April). Trends of sedentary behavior in high school students in the United States, 2003-2015. Paper presented at the SHAPE America national conference, Tampa, FL.
9. Papini, N, Kang, M, **Ryu, S**, Griese, E, Wingert, T, Herrmann, SD. (March, 2019). Rasch calibration of the 25-item Connor-Davidson Resilience Scale. Society of Behavioral Medicine Annual Meeting Abstracts. Washington, D.C. *Annals of Behavioral Medicine*, 53(S1):S277.
10. **Ryu, S.**, Kim, H., & Kang, M. (2018, May). Effect of Warm-up intervention on physical performance: a meta-analysis. Paper presented at the ACSM national conference, Minneapolis, MN.
11. Kim, H., Mun, J., **Ryu, S.**, & Kang, M. (2018, March). Sedentary behavior and metabolic syndrome in physically active adults. Paper presented at the SHAPE America national conference, Nashville, TN.
12. **Ryu, S.**, Mun, J., Kim, H., & Kang, M. (2018, March). Trend analysis of measurement and evaluation in RQES using text mining. Paper presented at the SHAPE America national conference, Nashville, TN.
13. **Ryu, S.**, Kim, H., Mun, J., & Kang, M. (2018, March). Association between sedentary behavior and obesity in adolescent according to meeting of physical activity guideline. Paper presented at the SHAPE America national conference, Nashville, TN.
14. **Ryu, S.**, Kim, H., Mun, J., & Kang, M. (2017, May). Validity of sedentary behavior guideline for youth. Paper presented at the ACSM national conference, Denver, CO.

15. Kim, H., **Ryu, S.**, Ragan, B. G., & Kang, M. (2016, June). Compositional data analysis of Sedentary Behavior Patterns in Overweight and Non-Overweight Adults. Paper presented at the ACSM national conference, Boston, MA.
16. **Ryu, S.**, Kim, H., Mun, J., Ragan, B. G., & Kang, M. (2016, June). Compositional data analysis of total activity patterns by sex and obesity status. Paper presented at the ACSM national conference, Boston, MA.
17. Kim, H., Farnsworth, J. L., **Ryu, S.**, & Kang, M. (2015, October). Convergent validity evidence for the Sedentary Behavior Record. Paper presented at the Sedentary Behavior & Health Conference. Urbana-Champaign, IL.

## IV. TEACHING

### A. Years at Colleges/Universities

2021-Present Teaching Assistant – WWAMI Medical Program at University of Idaho

**Teaching Assistant**

Research Methods

2017-2021 Teaching Assistant – Department of Health, Exercise, and Recreation Management, University of Mississippi

**Primary Instructor**

ES 351 Measurement & statistics in Exercise Science (3 credits)

HP 191 Personal and community Health (3 credits)

EL 147 Tennis (1 credit)

**Guest Lectures**

ES 620 Selected Topics in Exercise Science (Meta-Analysis)  
(Lecture – Comprehensive Meta-Analysis Software); **Grad level**

2015-2016 Teaching Assistant – Department of Health and Human Performance, MTSU

**Teaching Assistant**

PHED 1080 Beginning Bowling (1 credit)

PHED 1040 Beginning Tennis (1 credit)

HHP 6700 Data Analysis and Organization for Human Performance; **Grad level**

**Guest Lectures**

HHP 6700 Data Analysis and Organization for Human Performance  
(Lecture – Analysis of Variance); **Grad level**

HHP 7300 Current Measurement Issues in Health and Human Performance  
(Lecture – Validity Generalization); **Grad level**

HHP 7740 Meta-Analysis  
(Lecture – Comprehensive Meta-Analysis Software); **Grad level**

## V. SERVICE

### A. Statistics consulting

- 2021-Present     Statistical Consultant  
                         ; WWAMI Medical Program at University of Idaho
- 2019- 2021       Volunteer Statistical Consultant  
                         ; Research & Analytics Lab, School of Applied Sciences, University of Mississippi
- Provided statistical consulting services for faculty, students, and staff.
  - Provided tutoring services involving statistical measures for doctoral, masters, and undergraduate students.

### B. Journal Reviewer

- 2019-Present     Journal of Physical Activity & Health  
2020-Present     PLOS ONE  
2022-Present     BMC Sports Science, Medicine and Rehabilitation

### C. Annual Workshop Presentation

A professional lecture provided to the graduate student and faculty members at UM and MTSU.

1. **Ryu, S.** (2021, March). Nonparametric statistics: Spearman rho correlation. Presented at the *1<sup>st</sup> Annual School of Applied Sciences Workshop*. University, MS.
2. **Ryu, S.** (2017, February). Nonparametric statistics: Wilcoxon Signed Rank test, Mann-Whitney U-test. To be presented at the *5<sup>th</sup> Annual Kinesmetrics Statistical Consulting Workshop*. Murfreesboro, TN.
3. **Ryu, S.** (2016, March). Data mining techniques: Association Rule. Presented at the *4<sup>th</sup> Annual Kinesmetrics Statistical Consulting Workshop*. Murfreesboro, TN.

### D. Kinesmetrics Lab Presentation

Analysis of Covariance (ANCOVA)

Compositional Data Analysis

How to Analyze Secondary Dataset: Data Management

Mediation & Moderation Analysis

Repeated Measures ANOVA & MANOVA

Research, Planning, and Evaluation

Secondary Data Analysis & Developing Research Idea