National Institutes of Health, National Institute of Mental Health R01		
Title:	The Impact of Food Pantry Accessibility, Customer Experience, and Nutrition on	
	Food Insecurity, Mental Illness in the Era of COVID-19	
Role:	Co-Investigator (PI: Yu)	
Duration:	9/1/2022-8/31/2026	
Amount:	\$1,565,000	
Status:	Pending	
National Institutes of Health, National Library of Medicine R01		
Title:	Systems for Helping Patients Understand Their Clinical Visits	
Role:	Co-Investigator (PI: Yu)	
Duration:	7/1/2022-6/30/2026	
Amount:	\$1,611,571	
Status:	Pending	
Department of Education, China		
Title:	A Comparative Study of Narrative Language Development Among Children in	
	China and U.S. from the Perspective of Language Typology	

Title:	A Comparative Study of Narrative Language Development Among Children i	
	China and U.S. from the Perspective of Language Typology	
Role:	Co-Investigator (PI: Zhang)	
Duration:	8/1/2022-12/31/2025	
Amount:	\$31,447	
Status:	Pending	

# Funded

American Educational Research Association (AERA) – Division D			
Title:	Incorporating Machine Learning into Factor Mixture Modeling: Selection of		
	Covariates to Predict Population Heterogeneity		
Role:	Principal Investigator		
Duration:	3/1/2021-8/1/2021		
Amount:	\$4,921		
National Institutas of Haalth, Eurica Kannady Shrivar National Instituta of Child Haalth and			

National Institutes of Health, Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD) R00

Title:	Virtual Reality-based Rehabilitation for Children with Traumatic Brain Injuries
Role:	Co-Principal Investigator (PI: Shen)
Duration:	9/3/2020-8/31/2023
Amount:	\$713,112

University of Massachusetts Lowell Internal Seed Grant

 Title:
 Evaluating Statistical Models for the Disaggregation of Between-Person and Within-Person Effects

 Date:
 Dringingl Investigator

Role:	Principal Investigator
Duration:	6/1/2019-5/31/2022
Amount:	\$9,107

Peer Reviewed Journal Articles(n = 34)

- Wang, Y., Kim, E., Joo, & H., Chun, S., AlamriA., Lee, P., & Stark, S2022). Reconsidering multilevel latent class models: Can levelatent classes affect item response patterns? Journal of Experimental Education, 90(1), 1582. <u>https://doi.org/10.1080/00220973.2020.1737</u>[JF3= 2.623; 5year IF = 3.114]
- Wang, Y., Kim, E., & Yi, Z. (2022). Robustness of latent profile analysis to measurement noninvariance between profiles. Educational and Psychological Measurement, 82(1), 5

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- Tan, X. T., \*Yi, Z., Kamphaus, R., Wang, Y., \*Li, Z., & \*Cheng, k20(19). Testing the reliability and construct validity of the Chinese translation of BASSCRP for 1218-year old youth. Journal of Psychoeducational Assessment, 38(56),1299https://doi.org/10.1177/07342829198742[157 = 1.256; 5year IF = 1.626]
- Zhang, F., McCabe, A., Ye, J., Wang, Y., & Li, X2(19). A developmental study of the narrative components and patterns of Chinese children aged three to six years. Journal of Psycholinguistic Research, 48(2), 4500. <u>https://doi.org/10.1007/s109868-9614-3</u> [IF = .655; 5year IF = .791]
- Wang, Y., \*Pham, T. V., \*Nguyen, D. T., Kim, E. S., Chen,HY, Kromrey, J. D., \*Yi, Z., & \*Yin, Y. (2018). Evaluating the efficacy of conditional analysis of variance under heterogeneity and nemormality. Journal of Modern Applied Statistical Methodis(2), eP2701. <u>https://doi.org/10.22237/jmasm/155534</u>0224
- Kim, E. S. & Wang, Y. (2018). Investigating sources of heterogeneity with p multilevel factor mixture modeling: Beyond testing measurement invariance in readissal studies. Structural Equation Modeling: A Multidisciplinary Journal, 26(2), 185-<u>https://doi.org/10.1080/10705511.2018.1521</u>[JB4= 4.426; 5year IF = 6.742]
- Tan, T. X., Wang, Y., CheałC., & Wang, G. H. (2018). Reliability and construct validity of Children's Sleep Habits Questionnaire in Chinese kindergartners. Sleep Health: Journal of the National Sleep Foundation, 4(1), 1049. https://doi.org/10.1016/j.sleh.2017.10.008
- Wang, Y., & Kim, E. S. (2017). Evaluating model fit and structural coefficient bias: A Bayesian approach to multilevel bifactor model misspecification. Structural Equation Modeling: A Multidisciplinary Journal, 24(5), 699-13. <u>https://doi.org/10.1080/10705511.2017.1333910</u>
- Wang, Y., Kim, E. S., Dedrick, R., Ferron, J., & Tan, T. X. (2017). A multilevel bifactor approach to construct validation of the mixed nat Students Confident in Mathematics Scale. Educational and Psychological Measure (2), 253271. https://doi.org/10.1177/0013164417690858
- Wang, Y., Rodriguez de Gil, P., Chen, H., Kromrey, J. D., Kim, E. S., Nguyen, D. T., Pham, T. V., & Romano, J. (2017). Comparing the performance of approaches for testing the Homogeneity of Variance assumption in *dae*tor ANOVA models. Educational and Psychological Measurement, 77(2), 30329. <u>https://doi.org/10.1177/0013164416645</u>162
- Kim, E. S., Cao, C., Wang, Y., & Nguyen, D. T. (2017). Measurement invariance testing with many groups: A comparison of the approaches. Structural Equation Modeling: A Multidisciplinary Journal, 24(4), 52 44. <u>https://doi.org/10.1080/10705511.2017.1304822</u>
- Kim, E. S., & Wang, Y. (2017). Class enumeration and parameter recovery of growth mixture

modeling and secon**or**der growth mixture modeling in the presence of measurement noninvarianceFrontiers in Psychology, 8:1499. <u>https://doi.org/10.3389/fpsyg.2017.01499</u>

Kim, E. S., Wang, Y., & Kiefer, S(2017

Tan, T. X., & Wang, Y. (under review). Maternal education, home environment and children's academic performance: 8efw3J [-1(o)] TJ4(er)] TJ [DC [2( Wan)] TJ EMC /ArtifactBDC 5.011 0 g

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heterogeneity. Paper presented at American Educational Research Association (AERA), San Antonio, USA.

- Wang, Y., & Kim, E. S. (2016 April). Evaluating model fit and structural coefficient bias: A Bayesian approach to multilevel bifactor model misspecification. Paper presented at American Educational Research Association (AERA), Washington, D.C., USA.
- Kim, E. S., Cao, C., Wang, Y., & Nguyen, D. T. (2016 April). Testing measurement invariance with many groups: An empirical comparison of five approaches. Poster presented at American Educational Research Association (AERA), Washington, D.C.
- Nguyen, D. T., Kim, E. S., **Wang, Y.**, Pham, T. V., Kromrey, J., & Chen, Y-H. (2016 April). Testing mean equality under heterogeneity and momentality: An empirical comparison of tests for on factor ANOVA models paper presented at American Educational Research Association (AERA), Washington, D.C., USA.

Wang, Y., Li, I., & Kim, E. S. (2015 November). A cro

Li, J., White, C. E., & **Wang, Y.** (2014 April). Urban adolescents' stories about new technologies and their applications for literacy instruction and learning. Paper presented at American Educational Research Association (AERA), Philadelphia, USA.

Li, I., Che

PSYC.4860 Community Service Learning

Spring 2019 (1 student, 3 credits, evaluation not conducted for service learning courses) Spring 2020 (1 student, 3 credits, evaluation not conducted for service learning courses)

PSYC.7030 Selected Topics in Applied Psychology & Prevention Science (APPS): Multilevel Modeling

Spring 2021 (12 students, 3 credits, evaluation 4.89/5)

#### PSYC.6930 Directed Study in APPS

Spring 2021 (1 student, 3 credits, evaluation not conducted for Directed Studies)

#### MENTORING

#### **Doctoral Students**

Primary and Secondary Advisor

2021— Alexandria Winstt3 TfT\*(2021) Tj(—) Tj[-2(ns)] reiea X(e)] TJ-uEMCBT/Head2 TJ TJ] TJ(t3 T

## SERVICE ACTIVITIES

### Profession

### **Editorial Board**

- 2022— Editorial advisory board member, School Psychology Review
- 2020— Consulting editor, Behavior Research Methods

## **Ad Hoc Review**

- 2021— Urban Education
- 2021— PLOS ONE
- 2021— Cyberpsychology: Journal of Psychosocial Research on Cyberspace
- 2020— Sociological Methods and Research
- 2020— Frontiers in Psychology
- 2020— BMC Public Health
- 2018—2020 Behavior Research Methods
- 2018— Structural Equation Modeling: A Multidisciplinary Journal
- 2017— Educational and Psychological Measurement
- 2017— Journal of Psychoeducational Assessment
- 2015— American Educational Research Association Conference
- 2014 American Evaluation Association Conference

## **Grant Proposal Review**

2021 Reviewer, virtual panel for the National Science Foundation, Directorate for Engineering, Engineering Education and Centers

- Reviewed six grant proposals
- Discussed and rated 12 proposals in the two-day panel
- 2020 Reviewer, virtual panel for the National Science Foundation, Directorate for Education & Human Resources
  - Reviewed seven grant proposals
  - Discussed and rated 14 proposals in the two-day panel

## **Professional Conferences**

2022— Secretary/Treasurer, Special Interest Group – Multilevel Modeling, AERA
2022 Chair, Paper session (Methodological Considerations and Guidance for Estimating Longitudinal/Growth Models), AERA Annual Meeting
2021 Chair, Paper session (Experiment Designs of Educational Research Studies), AERA Annual Meeting
2021 Chair, Roundtable session (Advanced Structural Equation Modeling and Hierarchical Modeling at Roundtable), AERA Annual Meeting

## Memberships in Professional Organizations

2014— American Educational Research Association (AERA)

- Division D: Measurement and Research Methodology
- SIG-Structural Equation Modeling
- SIG-Multilevel Modeling
- SIG-Educational Statisticians

2019—	<ul> <li>SIG-Systematic Reviews and Meta-Analysis</li> <li>American Psychological Association (APA)</li> <li>Division 5: Quantitative and Qualitative Methods</li> </ul>
2020— 2018—	<ul> <li>Department</li> <li>Member, Undergraduate Program Committee</li> <li>Member, Applied Psychology and Prevention Science Ph.D. Program Committee</li> <li>Sent emails requesting professional organizations to post advertisements for the program</li> <li>Disseminated advertisements for the program to colleagues and potential applicants</li> <li>Gave a talk to APPS students regarding the preparation of CV, research, and teaching statements for job searches in academia</li> <li>Developed an advanced statistical course on multilevel modeling at the request of the committee</li> </ul>
2020—	College Faculty advisor, FAHSS Ph.D. Student Advisory Board - Met board members (6 doctoral students from the three Ph.D. programs under FAHSS) to discuss and help coordinate events
2021—	University Core (and founding) faculty member, Center for Health Statistics - Discussed the purpose and scope of the center - Edited the application document for the center - Initiate and co-organize (with Hsien-Yuan Hsu) a Quantitative Series that consists of monthly presentations on advanced quantitative methodology
2021— 2021—	Member, Faculty Senate, University of Massachusetts Lowell Associate member, Center for Program Evaluation (CPE) - Participated in CPE sponsored events such as Brown Bags and Writer's Blocks
2020—	Member, Committee on Interdisciplinary Offerings in Data Science/Analytics/Computation - Attended meetings to discuss interdisciplinary course offerings
2018—	<ul> <li>Member, Center for Population Health (CPH)</li> <li>Participated in CPH meetings to provide consultation on research projects</li> <li>Collaborated with center members on grants and papers</li> </ul>
2019—	Community WOC (without compensation) appointee, VA Medical Center at Bedford MA - Assisted with Dr. Hong Yu (UML, Computer Science) on research projects including study design, data analysis, and manuscript reviewing/writing