

Ying Liu, Ph.D.

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Center for Economic and Social Research
University of Southern California
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PROFESSIONAL EXPERIENCE

University of Southern California, Los Angeles, CA **January 2017 – present**

Research Scientist, Dornsife Center for Economic and Social Research

Provide statistical and psychometric advice and analyses on research projects.

Lead research in discriminatory experience of racial/ethnic minorities amid the COVID-19 pandemic.

WestEd, Redwood City, CA **July 2015 – present**

Consulting Statistician, STEM Program

Provide statistical and psychometric advice and analyses on research projects.

City University of New York, Graduate Center, New York, NY **September 2014 – July 2016**

Senior Researcher, Center for Advanced Study in Education, July 2015 – July 2016

Visiting Research Scholar, Ph. D. Program of Educational Psychology, September 2014 – August 2015

Conducted research in methodology development in psychometrics and statistics, especially in educational measurement.

- Developed Bayesian estimation of intra-class correlation and reliability measure.
- Contributed to grant proposals studying educational data mining and big data visualization.

Fordham University, Department of Psychology, Bronx, NY **September 2009 – August 2015**

Assistant Professor, Psychometrics and Quantitative Psychology, September 2011 – August 2015

Visiting Assistant Professor, Psychometrics and Quantitative Psychology, September 2009 – August 2011

Led research in psychometrics and statistics. Provided statistical advice and analyses on research projects in education, psychology, and health-related areas. Taught statistics and psychometrics at doctoral and undergraduate levels.

- Developed new analytic techniques, especially on the basis of item response theory, and applied to assessment of educational and patient-reported outcomes.
- Directed projects in methodology development that contribute to study learning progression, cognitive diagnosis, and heterogeneity of treatment effect.
- Provided statistical advice and analyses on numerous psychological and health-related studies and grants, including but not limited to research on quality of life for elderly, decision-making capacity and neuropsychological functioning of terminally ill patient, assessment of desire for hastened death, assessment of the Alzheimer's disease, and partner relationship.
- Provided instruction on topics ranging from introductory statistics and psychometrics to statistical computing and mathematical statistics.

EDUCATION

Ph.D., Quantitative Psychology University of Illinois at Urbana-Champaign, Champaign, IL Dissertation: An Item Response Unfolding Model for Graphic Rating Scales	2009
M.A., Quantitative Psychology University of Illinois at Urbana-Champaign, Champaign, IL Thesis: Person Fit in Cognitive Diagnosis	2007
M.S., Statistics University of Illinois at Urbana-Champaign, Champaign, IL	2005
B.S., Psychology Peking University (a.k.a., Beijing University), Beijing, China Thesis: Differential Coping Flexibilities to Severe Acute Respiratory Syndrome-related and Daily Life Stressful Events and Their Relationship to Cognitive Complexity	2003

TECHNOLOGICAL SKILLS

General Statistical Packages: R, STATA, SAS, SPSS, SYSTAT.
Specialized Statistical Packages: MPlus, AMOS, LISREL, IRTPRO, BILOG, MULTILOG, PARSCALE.
Programming Platforms: MATLAB, FORTRAN.
Proficient in Microsoft Word, Excel, and PowerPoint, LaTeX.

CERTIFICATIONS

Health Insurance Portability and Accountability Act of 1966
Human Subjects Protection

MEMBERSHIPS IN PROFESSIONAL ASSOCIATIONS

American Educational Research Association
American Psychological Association, Division 5, Evaluation, Measurement, & Statistics
American Statistical Association
National Council on Measurement in Education
Psychometric Society
Society of Behavioral Medicine

REVIEWER

Funding Agencies

- National Science Foundation

Book Publishers

- Routledge/Taylor & Francis Group

Professional Journals

- Applied Psychological Measurement
- BMC Medical Education

- Cultural Diversity and Ethnic Minority
- Educational Psychology
- Educational Research and Evaluation
- Fathering: A Journal of Research, Theory and Practice about Men as Fathers
- Health Education & Behavior
- International Journal of Medical Education
- Journal of Classification
- Journal of Educational Measurement
- Multivariate Behavioral Research
- Psychological Methods
- Psychometrika
- Statistics in Medicine

FELLOWSHIPS AND HONORS

Fellowships

- **University Fellowship Award** U
University of Illinois at Urbana-Champaign

Honors

- **Teachers Ranked Excellent by Their Students** T
University of Illinois at Urbana-Champaign

RESEARCH

Grants and Contracts

Active Grant

National Science Foundation (1621470) Baroody (PI) 09/2016-08/2022

Development of the Electronic Test of Early Numeracy

The project develops and refines an electronic Test of Early Numeracy (e-TEN) in English and Spanish, focused on number and operations. The test uses a semi-adaptive algorithm and incorporates a learning trajectory that describes students' development of the understanding of number.

Role: Co-Investigator

NIH/NCI (R01CA228058) Datar (PI) 03/2018-02/2023

The Impact of Improvements in Built- and Social-Environments and Housing on Obesity in Public Housing Residents: Evidence from a Natural Experiment in South Los Angeles

In collaboration with a major public housing renovation in a high-poverty urban community, the project uses natural experiment to study causal impact of environmental and housing factors on obesity in adults. In particular, the study adapts the stepped wedge design, a special RCT design that introduces intervention to clusters of participants in a timed and lagged manner, to separate the impact of individual components of the intervention.

Role: Co-Investigator

NIH/NICHD (R01HD096293) Datar (PI) 07/2018-05/2022

The Impact of Improvements in Built, Social, and Housing Environments on Low-Income Children's Obesity: Evidence from a Natural Experiment in South Los Angeles

With a similar design to the adult obesity project, this study examines the causal impact on obesity in children.

Role: Co-Investigator

NIH/NHLBI (R01HL141870) Datar (PI) 09/2018-08/2022

Contextual Effects on Cardiometabolic Health: Evidence from a Natural Experiment

The study investigates the causal mechanisms and pathways through which contextual factors influence cardiometabolic (CM) health outcomes in adults, by leveraging an innovative natural experiment created by the periodic relocation of military service-members to different communities.

Role: Co-Investigator

Union Bank (sponsored partnership) Kapteyn (PI) 04/2019-12/2021

LA Barometer

The project aims to build a representative panel of Los Angeles County residents, and track them for ten years. Through collection and analysis of survey, sensor and contextual data on a wide spectrum of personal and environmental factors, the project intends to provide insights regarding what shapes and drives inequality over the life course.

Role: Co-Investigator

NIH/NIA (3R01AG030153-15S1) Lee (PI) 08/2020-03/2021

Incorporating the Harmonized Cognitive Assessment Protocol (HCAP) into the Gateway to Global Aging Data and Building Active User

NIH/NIA (3U01AG064948-02S2) Lee (PI) 02/2021-08/2021

Monitoring Medium- and Long-Term Impacts of COVID-19 and Public Data Dissemination

NIH/NIA (3R01AG030153-16S1) Lee (PI) 05/2021-03/2022

Incorporating the Harmonized Cognitive Assessment Protocol: Statistical Harmonization

The series of studies facilitates longitudinal and cross-country analyses on aging, especially those using the family of Health and Retirement Studies (HRS) around the world. Specifically, it aims to incorporate additional longitudinal, harmonized variables which offer great scientific promise and are often requested by users, including those on biomarkers, disability, pension wealth and incentives to retire, social connectedness and isolation, psychosocial, next-of-kin interviews for the deceased, and life-history interviews.

Role: Co-Investigator

IES (R305A210335) Hamilton (PI) 07/2021-06/2024

Initial Efficacy Evaluation of an Action Civics Program

The study investigates the initial efficacy of Generation Citizen, a fully developed peer-to-peer action civics intervention program, using a clustered randomized controlled trial design.

Role: Co-Investigator

Completed Grant

Fordham University PI 09/2010-08/2011

A General Item Response Model for Surveys with Filter Questions: An Innovative Data Analysis Technique with Wide Applications.

The project develops the mathematical foundation for a new analytic method for survey data when follow-up questions are administered depending on responses to prior questions.

NIH/NCI (1F31CA165635-01A1) Kolva (PI) 05/2012-05/2014

Decision-making Capacity and Neuropsychological Functioning in Terminally Ill Cancer Patients

Patients with advanced cancer must make important decisions even after the point at which their disease has progressed beyond the possibility for cure. However, patients with advanced cancer are vulnerable to impairments in decision-making capacity. Additionally, anti-cancer treatments and the disease itself have been linked to impairment in neuropsychological functioning that may underlie decision-making ability. The proposed study aims to aid clinicians by identifying patterns of decisional impairment in terminally ill cancer patients so that they can better assess and enhance patient decision-making capacity.

Role: Statistical Consultant

George Lucas Educational Foundation Saavedra (PI) 03/2015-05/2018
Knowledge in Action Efficacy Study

The KIA Efficacy study evaluates the efficacy of KIA curriculum, a project-based instructional method that is designed for Advanced Placement exams, with the focus on subjects of environmental sciences and US government. The study uses a clustered randomized control trial design and collects data from multiple school districts across the country.

Role: Co-Investigator

George Lucas Educational Foundation Saavedra (PI) 02/2017-12/2020
Knowledge in Action Maturation Study

As continuation of the KIA Efficacy study, the KIA Maturation study evaluates the efficacy over a two-year period because the effects of teachers' KIA implementation on students' AP test scores may not be representative of the effects after they have a year to familiarize themselves with the full sequence of KIA curriculum and instructional approaches. In addition to the experimental design between the originally randomized treatment groups, the Maturation study also incorporates a quasi-experimental design that samples a third group using propensity score matching.

Role: Co-Investigator

US Department of Education Galt Union School District 08/2017-11/2017
Bright Future for Galt Students (Race to the Top District Grants)

The project aims to evaluate the effectiveness of personalized learning in an elementary school district. The impact of the intervention is evaluated by tracking students' academic outcomes in a four-year period and comparing to those of a matched national comparison group.

Role: Co-Investigator

International Baccalaureate Saavedra (PI) 05/2018-12/2019
Student Pathways Through Middle School, High School and Into Postsecondary Education: MYP Student Outcomes in a Large US Public School District

The project tracks Middle Years Programme students in a large and diverse school district from middle school to college, and uses quasi-experimental design to study how students' participation and performance in the MYP impacts their academic performance and growth in the future, in contrast to their non-participating counterparts.

Role: Statistical advisor

Centers for Medicare & Medicaid Services Mattke (PI) 09/2018-08/2020
Testing a Quality Measure for Continuity of Pharmacotherapy for Opioid Use Disorder at the Provider Level

The project proposes a provider-level quality measure for continuity of pharmacotherapy for opioid use disorder based on medical claims data, and examines its psychometric property.

Role: Co-Investigator

NIH/NIA (3U01AG054580) Kapteyn (PI) 09/2019-06/2020
Towards Next Generation Data on Health and Life Changes at Older Ages

The project aims to follow about 1000 individuals 50+ for at least four years using intensive data collection protocols, and to explore the application of wearable sensors and other self-administered biomarkers. The project is meant as a proof of concept for fundamentally new approaches to measuring and understanding determinants of health and well-being at older ages.

Role: Co-Investigator

NIH/NIA (3U01AG054580-04S3)

Kapteyn (PI)

09/2020-06/2021

Toward Next Generation Data on Health and Life Changes at Older Ages: Administration Supplement to Track the Effects of the COVID-19 Pandemic on American Families

This project proposes to continue a high-frequency longitudinal survey of Americans' experiences and behavior during the COVID-19 pandemic, started on March 10, with a probability-based panel of 8,500 adults representing the entire United States.

Role: Co-Investigator

Biogen (sponsored research)

Mattke (PI)

11/2020-03/2021

Societal value of the Disease Modifying Treatment of the Alzheimer's Disease

The project simulates and assesses the societal value of a disease modify treatment for the Alzheimer's disease, including avoided medical costs and gains in QALYs for patients and caregivers, avoided community and institutional social care costs as well as higher labor income and lower social cost of disability payments for patients.

Role: Co-Investigator

Service Contract

USC Race and Equity Center

11/2018-02/2019

Providing technical support to the development of the National Assessment of Collegiate Campus Climates.

University of Sydney

06/2018-10/2018

Third-party review of data analysis and report on the University's cultural survey; providing additional analysis to supplement the report.

Publications in Peer-reviewed Journals († designates student advisee)

Becker, A., **Liu, Y.**, & Mattke, S. (under review). Validation of visit-based methods for attribution of patients to clinicians and practices in quality measurement via comparison with direct attribution methods. *Health Services Research*.

***Liu, Y.**, *Schneider, S., Orriens, B., Meijer, E., Darling, J. E., Gutsche, T., Gatz, M. (resubmitted). Self-administered web-based tests of executive functioning and perceptual speed: A measurement development study with a large probability-based survey panel. *Journal of Medical Internet Research*. (* equal contributions).

Saavedra, A. R., Morgan, K. L., Garland, M. W., Rapaport, A., **Liu, Y.**, Hu, A., Hoepfner, D., & Haderlein, S. K. (accepted). The impact of project-based learning on AP exam performance. *Educational Evaluation and Policy Analysis*.

Prados, M. J., **Liu, Y.**, Jun, H., Lam, J., & Mattke, S. (2022). Projecting the long-term societal value of a disease-modifying treatment for Alzheimer's disease in the United States. *Alzheimer's & Dementia: The Journal of the Alzheimer's Association*, 2022:1-11. <https://doi.org/10.1002/alz.12578>

Liu, Y., Becker, A., & Mattke, S. (2022). Association of adverse events in opioid use disorder with measure for continuity of pharmacotherapy. *Journal of Healthcare Quality*. <https://doi.org/10.1097/JHQ.0000000000000338>

- Liu, Y., Shier, V., King, S., & Datar, A.** (2022). Predictive utility of alternate measures of physical activity and diet for overweight and obesity in low-income minority women. *American Journal of Health Promotion*. <http://doi:10.1177/08901171211069992>
- Datar, A., Shier, V., Braboy, A., Jimenez-Ortiz, M, Hernandez, A., King, S., & **Liu, Y.** (2022). Assessing impacts of redeveloping public housing communities on obesity in low-income minority residents: Rationale, study design, and baseline data from the Watts Neighborhood Health Study. *Contemporary Clinical Trials Communications*, 25. <https://doi.org/10.1016/j.conctc.2021.100879>
- Liu, Y. & Mattke, S.** (2020). Association between state stay-at-home orders and risk reduction behaviors and mental distress amid the COVID-19 pandemic. *Preventive Medicine*, 141. <https://doi.org/10.1016/j.ypmed.2020.106299>
- Liu, Y., Finch, B. K., Brenneke, S. G., Thomas, K., & Le, PT. D.** (2020). Perceived discrimination and mental distress amid the COVID-19 pandemic: Evidence from the Understanding America Study. *American Journal of Preventive Medicine*, 59: 481-492. <https://doi.org/10.1016/j.amepre.2020.06.007>
Media interview by *Today*, *ABC News*, *MarketWatch*, *KPBS*, and *ABC7*.
- McCarthy, E. M., **Liu, Y.**, & Shauer, K. L. (2020). Strengths-based blended personalized learning: An impact study using virtual comparison group. *Journal of Research on Technology in Education* (Special Issue on Personalized Learning), 52: 353-370. <https://doi.org/10.1080/15391523.2020.1716202>
- Kapteyn, A., Angrisani, M, Bennett, D., Bruine de Bruin, W, Darling, J, Gutsche, T, **Liu, Y.**, Meijer, E., Perez-Arce, E., Schaner, S., Thomas, K., & Weerman, B. (2020). Tracking the effect of the COVID-19 pandemic on American households. *Survey Research Methods*, 14: 179-186. <https://doi.org/10.18148/srm/2020.v14i2.7737>
- Minchen, N., de la Torre, J., & **Liu, Y.** (2017). A cognitive diagnosis model for continuous response. *Journal of Educational and Behavioral Statistics*, 42(6): 651-677. <https://doi.org/10.3102/1076998617703060>
- Kolva, E., Rosenfeld, B., **Liu, Y.**, Pessin, H., & Breitbart, W. (2017). Using item response theory (IRT) to reduce patient burden when assessing desire for hastened death. *Psychological Assessment*, 29(3): 349-353. <https://doi.org/10.1037/pas0000343>
- [†]Arieli-Attali, M. & **Liu, Y.** (2016). Beyond correctness: development of categorical scoring rubrics for diagnostic purposes. *Educational Psychology: An International Journal of Experimental Educational Psychology* (Special Issue on Cognitive Diagnosis Assessment), 6: 1083-1101. <https://doi.org/10.1080/01443410.2015.1031088>
- [†]Grochowalski, J. H., **Liu, Y.**, & Siedlecki, K. L. (2016). Examining the reliability of ADAS-Cog change scores. *Neuropsychology, Development, and Cognition. Section B, Aging, Neuropsychology and Cognition*, 23: 513-529. <https://doi.org/10.1080/13825585.2015.1127320>
- Chabot, D. & **Liu, Y.** (2015). Development and psychometric properties of pursuer-distancer movement scale. *Journal of Psychology and Behavioral Science*, 3: 13-23. <http://dx.doi.org/10.15640/jpbs.v3n1a2>
- [†]Lord-Bessen, J. & **Liu, Y.** (2015). Extraction of latent class progressions in behavioral data [Abstract]. *Multivariate Behavioral Research*. <https://doi.org/10.1080/00273171.2014.989006>
- Liu, Y. & Verkuilen, J.** (2013). Item response modeling of Presence-Severity items: Application to measurement of patient-reported outcomes. *Applied Psychological Measurement*, 37: 58-75. <https://doi.org/10.1177/0146621612455091>
- Liu, Y., Douglas, J. A., & Henson, R. A.** (2009). Testing person fit in cognitive diagnosis. *Applied Psychological Measurement*, 33: 579-598. <https://doi.org/10.1177/0146621609331960>
- McBride, B. A., Dyer, W. J., **Liu, Y.**, Brown, G. L., & Hong, S. (2009). The differential impact of early father and mother involvement on later student achievement. *Journal of Educational Psychology*, 101: 498-508. <https://doi.org/10.1037/a0014238>
- Gan, Y., **Liu, Y.**, & Zhang, Y. (2004). Flexible coping responses to severe acute respiratory syndrome-rated and daily life stressful events. *Asian Journal of Social Psychology*, 7, 55-66. <https://doi.org/10.1111/j.1467-839X.2004.00134.x>

- Chien, S., King, S., Young, C., **Liu, Y.**, Meijer, E., Gross, A., Cadar, D., & Lee, J. (2021). *Harmonized ELSA-HCAP Documentation*. Los Angeles: University of Southern California.
- McCarthy, B. M., & **Liu, Y.** (2018). *Impact study of the Galt Personalized Learning Model*. San Francisco, CA: WestEd.

Other Publications

- Saavedra, A. R., Rapaport, A., Morgan, K. L., Garland, M. W., **Liu, Y.**, Hu, A., Hoepfner, D., & Haderlein, S. K. (2021). Project-based learning in AP classrooms: Lessons from research. *Phi Delta Kappan*, 103(3): 34-38
- Liu, Y.** (2021). Asian Americans top target for threats and harassment during pandemic. *The Conversation*. Republished in [U.S. News](#); interviewed by [Academic Minute](#).

Selected Conference Presentations: Paper († designates student advisee)

- Liu, Y.**, Schneider, S., Orriens, B., Meijer, E., Darling, J. E., Gutsche, T., Gatz, M. (2022). *Self-administered web-based cognitive testing: Does environmental distraction matter?* Paper presented at the Current Innovations in Probability-based Household Internet Panel Research (CIPHER) Conference.
- Sandlin, E., Darling, J., Garland, M., **Liu, Y.**, Saavedra, A. (2022). *Better off dead: Schadenfreude, ill wishes, and endorsement of political violence in the wake of the 2020 United States Presidential Election*. Paper presented at the Western Political Science Association Annual Meeting, Portland, Oregon.
- Gatz, M., Schneider, S., Kapteyn, A., Darling, J., Orriens, B., Meijer, E., **Liu, Y.**, & Gutsche, T. (2021). *Developing a perceptual speed test for the Understanding America Study*. Paper presented at the Current Innovations in Probability-based Household Internet Panel Research (CIPHER) Conference.
- Liu, Y.**, Barody, A. J., McCarthy, B. M., & Eiland, M. D. (2019, November). *Analysis of the E-TEN calibration data*. Paper accepted by North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA) Annual Meeting, St. Louis, Missouri.
- McCarthy, B. M., & **Liu, Y.** (2019, April). *Strengths-based blended personalized learning: An impact study using a virtual comparison group*. Paper presented at the American Educational Research Association Annual Meeting, Toronto, Canada.
- Saavedra, A. R., Rapaport, A., Marwah, E., Carle, J., **Liu, Y.**, Johnson, S. J., Li, J., Hoepfner, D. A., & Garland, M. (2019, April). Shifting to project-based learning in the Advanced Placement Context. Paper presented at the American Educational Research Association Annual Meeting, Toronto, Canada.
- Liu, Y.**, Gatz, M., & Darling, J. (2019, February). Platform differences in assessing cognitive response time. Paper presented at the Current Innovations in Probability-based Household Internet Panel Research (CIPHER) Conference, Washington, D. C.
- †Fan, Y., **Liu, Y.**, & Jopp, D. S. (2014, July). *Moderating mediation with MIMIC models: SEM analysis of personal resources, perceived age-related loss, and aging satisfaction*. Paper presented at the International Meeting of Psychometric Society, Madison, Wisconsin.
- †Reshetnyak, E., **Liu, Y.**, Rosenfeld, B., & Breitbart, W. (2014, May). *Estimation of heterogeneity of treatment effect using E-M algorithm*. Paper presented in the Modern Modeling Methods (M³) Conference, Storrs, CT.
- †Lord-Bessen, J., **Liu, Y.**, & †Sakworawich, A. (2014, April). *Detection of differential item functioning for repeated measures*. Paper presented at the National Council on Measurement in Education Annual Meeting, Philadelphia, PA.
- †Lehrfeld, J. & **Liu, Y.** (2013, July). *Detection of aberrant responding on tests with filter questions*. Paper presented at the International Meeting of Psychometric Society, Arnhem, The Netherlands.
- Tobias, K. G., **Liu, Y.**, Pessin, H., Breitbart, W., & Rosenfeld, B. (2013, March). *An exploratory factor analysis of the Memorial Symptom Assessment Scale (MSAS) in a terminally ill sample*. Paper presented at the Society of Behavioral Medicine Annual Meeting, San Francisco, CA.

- Kolva, E., **Liu, Y.**, Pessin, H., & Rosenfeld, B. (2013, March). *Scale reduction of the scale of attitudes toward hastened death using item response theory to reduce patient burden*. Paper presented at the Society of Behavioral Medicine Annual Meeting, San Francisco, CA.
- [†]Cubbellotti, S. & **Liu, Y.** (2012, April). *Item parameter recovery of dichotomous items for the Rasch model: IRT program showdown*. Paper presented at the American Educational Research Association Annual Meeting, Vancouver, BC, Canada.
- Liu, Y.** & Verkuilen, J. (2010, July). *An item response model for filter questions with mixed response types*. Paper presented at the International Meeting of Psychometric Society, Athens, GA.
- de la Torre, J. & **Liu, Y.** (2008, March). *A cognitive diagnosis model for continuous responses*. Paper Presented at the National Council on Measurement in Education Annual Meeting, New York City, NY.
- Liu, Y.** & Douglas, J. A. (2007, April). *Person fit in cognitive diagnosis (with the emphasis on applications)*. Paper presented at the National Council on Measurement in Education Annual Meeting, Chicago, IL.
- McBride, B. A., Dyer, W. J., & **Liu, Y.** (2007, April). *Fathers' early parenting and home/school partnerships: Does early involvement make a difference*. Paper presented at the American Educational Research Association Annual Meeting, Chicago, IL.
- Liu, Y.** & Douglas, J. A. (June, 2006). *Person fit in cognitive diagnosis models (with the emphasis on theoretical build-up)*. Paper presented at the International Meeting of Psychometric Society, Montréal, Québec, Canada.
- McBride, B.A., Dyer, J., & **Liu, Y.** (2006, April). *Father involvement and student achievement: Variations based on ecological contexts*. Paper presented at the American Educational Research Association Annual Meeting, San Francisco, CA.

Selected Conference Presentations: Poster ([†] designates student advisee)

- Liu, Y.**, Li, J., Saavedra, A., & Korn, S. (2020, March). *Pooling standardized test scores across states: Using NAEP to standardize and rescale*. Poster accepted at the Society for Research on Educational Effectiveness Annual Conference, Arlington, Virginia.
- Kolva, E., **Liu, Y.**, Pessin, H., & Rosenfeld, B. (2019, March). *Measurement invariance of the Schedule of Attitudes toward Hastened Death (SAHD) in patients with cancer and AIDS*. Poster presented at the Society of Behavioral Medicine Annual Meeting, Washington, D.C.
- McCarthy, B. M., & **Liu, Y.** (2019, March). *Impact study of a personalized learning model*. Poster presented at the Society for Research in Educational Effectiveness Annual Meeting, Washington, D.C.
- Jopp, D. S., [†]Fan, Y., **Liu, Y.**, & Schmitt, M. (2014, November). *Perceived age-related changes mediate resource effects on aging satisfaction*. Poster presented at the Gerontology Society of America Annual Meeting, Washington, D.C.
- [†]Lord-Bessen, J. & **Liu, Y.** (2014, October). *Extraction of latent class progressions in behavioral data*. Poster presented at the Society of Multivariate Experimental Psychology Graduate Student Conference, Nashville, Tennessee.
- Jopp, D. S., **Liu, Y.**, & Rott, C. (2011, November). *Depression in centenarians: direct and indirect effects of resources and meaning in life*. Poster presented at the Gerontological Society of America Annual Meeting, Boston, MA.
- Liu, L., Tay, L., Drasgow, F., & **Liu, Y.** (2011, April). *Exploring the use of rater assigned item difficulties (RAID)*. Poster presented at the Society for Industrial & Organizational Psychology Annual Meeting, Chicago, IL.
- McBride, B.A., Dyer, W. J., & **Liu, Y.** (2007, March). *The differential impact of early father and mother involvement on later student achievement*. Poster presented at the Society for Research in Child Development Biennial Meeting, Boston, MA.

Liu, Y. & Verkuilen, J. (June, 2006). *Ideal point IRT models for forced choice responses*. Poster presented at the International Meeting of Psychometric Society, Montréal, Québec, Canada.

TEACHING

Courses

Statistics (undergraduate)
Categorical Data Analysis (graduate)
Classical Test Theory (graduate)
Item Response Theory (graduate)
Introduction to Statistics in Psychology (graduate)
Structural Equation Modeling (graduate)

Tutorials on Advanced Topics

Advanced Structural Equation Modeling (graduate)
E-M Algorithm and Missing Data Analysis (graduate)
Introduction to Mathematical Statistics and Numerical Analysis (graduate)

Thesis

Dissertation

Lord-Bessen, J. (2014). Extraction of latent class progression in longitudinal study with applications in educational and behavioral science data.

Master Thesis

Cubbellotti, S. (2011). Comparison of the effectiveness of IRT programs on item parameter recovery.
Lehrfeld, J. (2013). Detection of aberrant responding on tests with filter questions.
Reshetnyak, E. (2014). Estimation of heterogeneity of treatment effect using E-M algorithm.
Fan, Y. (2014, co-mentored with Dr. Daniela Jopp). Moderating mediation with MIMIC models: SEM analysis of personal resources, perceived age-related loss, and aging satisfaction.
Arieli-Attali, M. (2014). Meaningful item scores: what Multiple Correspondence Analysis (MCA) and Constrained Correspondence Analysis (CCA) can tell us about applying categorical scoring method for diagnostic purposes.

Undergraduate Honor Thesis

Saad, J. (2013, co-mentored with Dr. David Chabot). Gender specific allocation of household tasks as a function of external work conditions: A consideration of Pursuer-Distancer styles.

Thesis Committee Membership (student name with year of completion)

Dissertation

Julie DiPopolo (2010), Ying Zhou (2011), Diane Scheiner (2012), Ping Guo (2012), Elayne Livote (2012, CUNY), Karyn Vacanti-Shova (2012), Janyce Osenbach (2012), Veleka Allen (2012), Liliya Korenovska (2012), Frank Williams (2013), Stephen Cubbellotti (2013), Nazia Rahman (2013), Amanda Gooding (2013), Ellisa Kolva (2014), Michelle Paggi (2014), James Marcus (2014), Monique Wilson (2014), Heather Shatten (2014), Yuanchao Bo (2014), Audra Noble (2015), Xiaoming Liu (2015), Blair Morris (2015), Meirav Arieli-Attali (2016).

Master Thesis

Daniel Benjamin (2012), Saemi Park (2014).