

Curriculum Vitae

CHENG-HSIEN LI (李澄賢), Ph.D.

Institute of Human Resource Management	Rome: 4081
College of Management	Phone: 866-7-525-2000 ext. 4936
National Sun Yat-sen University	Fax: 866-7-525-4936
No. 70, Lienhai Rd., Kaohsiung 80424, Taiwan	Email: lichengh@mail.nsysu.edu.tw

ACADEMIC APPOINTMENTS

- Assistant Professor**, Institute of Human Resource Management (人力資源管理研究所), College of Management, National Sun Yat-sen University (國立中山大學), Taiwan 2016.02–present
- Director**, Office of Accreditation and Assessment (國際認證暨評量辦公室), College of Management, National Sun Yat-sen University (國立中山大學), Taiwan 2016.09–2019.12
- Assistant Professor**, Children’s Learning Institute, Department of Pediatrics, University of Texas Health Science Center at Houston – Medical School, USA 2014.09–2016.01

EDUCATION

- Ph.D., Measurement and Quantitative Methods**, Department of Counseling, Educational Psychology, and Special Education, Michigan State University, East Lansing, MI 2014

Dissertation: “The Performance of MLR, ULSMV, and WLSMV in Structural Regression Models With Ordinal Variables.”

A Monte Carlo simulation study is carried out to determine what effects of the number of categories, the level of asymmetric distributions of ordinal variables, and sample size have on parameter estimates, standard errors, and chi-square statistics in a five-factor structural regression model.

Chair: Tenko Raykov, Ph.D.

Master of Arts, Education, National ChengChi University (國立政治大學), Taipei, Taiwan 2004

Major: Educational Psychology and Counseling (心理與諮商輔導組)

Thesis: “Emotion Regulation, Regulatory Focus, Optimism, and Creativity in College Students.” (大學生的情緒調節、調節焦點、樂觀與創造力之關係)

A quantitative study aimed at constructing a structural model and examining the relationships between positive traits (optimism) and creative behaviors through a structural equation modeling framework.

Chair: Jing-Jyi Wu (吳靜吉), Ph.D.

(國立中央大學), Chungli, Taiwan

Major: Mathematics

Special program: Secondary Teacher Education (中學教育學程)

REFEREED PUBLICATIONS

- Li, C., & Wu, J.** (2020). Psychometric evaluation of the Chinese version of the Emotion Regulation Questionnaire in Taiwanese college students. *Assessment, 27*, 1300-1309. [SSCI: Impact Factor = 3.80; Rank 14/131 in Psychology, Clinical; Times Cited: 6]
- Li, C.** (2016). The performance of ML, DWLS, and ULS estimation with robust corrections in structural equation models with ordinal variables. *Psychological Methods, 21*, 369-387. [SSCI: Impact Factor = 8.19; Rank = 6/137 in Psychology, Multidisciplinary; Times Cited: 92]
- Li, C.** (2016). Confirmatory factor analysis with ordinal data: Comparing robust maximum likelihood and diagonally weighted least squares. *Behavior Research Methods, 48*, 936-949. [SSCI: Impact Factor = 4.06; Rank = 1/13 in Psychology, Mathematics & Rank = 6/88 in Psychology, Experimental; Times Cited: 654]
- Diemer, M. A., **Li, C.**, Gupta, T., Uygun, N., Rogers-Sirin, L., & Sirin, S. R. (2014). Pieces of the immigrant paradox puzzle: Measurement, level, and predictive differences in precursors to academic achievement. *Learning and Individual Differences, 33*, 47-54. [SSCI: Impact Factor = 1.81; Rank = 23/59 Psychology, Educational; Times Cited: 17]
- Diemer, M. A., & **Li, C.** (2012). Longitudinal roles of pre-college contexts in low-income youths' postsecondary persistence. *Developmental Psychology, 48*, 1686-1693. [SSCI: Impact Factor = 3.34; Rank = 16/74 in Psychology, Developmental; Times Cited: 40]
- Raykov, T., Marcoulides, G. A., & **Li, C.** (2012). Measurement invariance for latent constructs in multiple populations: A critical view and refocus. *Educational and Psychological Measurement, 72*, 954-974. [SSCI: Impact Factor = 2.05; Rank 5/13 in Psychology, Mathematics, Rank 18/59 in Psychology, Educational, & Rank 39/100 in Mathematics, Interdisciplinary Application; Times Cited: 78]
- Li, C.** (2012). Validation of the Chinese version of the Life Orientation Test with a robust weighted least squares approach. *Psychological Assessment, 24*, 770-776. [SSCI: Impact Factor = 3.47; Rank 19/130 in Psychology, Clinical; Times Cited: 11]
- Diemer, M. A., & **Li, C.** (2011). Critical consciousness and political engagement among marginalized youth. *Child Development, 82*, 1815-1833. [SSCI: Impact Factor = 5.02; Rank = 4/59 in Psychology, Educational & Rank = 3/74 in Psychology, Developmental; Times Cited: 226]
- Li, C., & Wu, J.** (2011). The structural relationships between optimism and innovative behavior: Understanding potential antecedents and mediating effects. *Creativity Research Journal, 23*, 119-128. [SSCI: Impact Factor = 1.13; Rank = 48/59 in Psychology, Educational & Rank = 86/137 in Psychology, Multidisciplinary; Times Cited: 83]
- Wu, J., **Li, C.**, & Lin, W. (2007). Review of creativity education research in Taiwan

(台灣創造力教育研究之回顧). *New Horizons in Education*, 55, 47-59.

RESEARCH GRANTS

- Principal Investigator**, “Statistical Estimation of Structural Equation Models with Ordered Categorical Data: A Comparison of Frequentist and Bayesian Approaches.” Funded by the Ministry of Science and Technology (科技部),NTD 848,000 2020–2021
- Principal Investigator**, “Using MIMIC-interaction Modeling and Moderated Nonlinear Factor Analysis to Locate Referent Variables.” Funded by the Ministry of Science and Technology (科技部),NTD 1,696,000 2018–2020
- Principal Investigator**, “Statistical Estimation of Structural Equation Models with a Mixture of Continuous and Ordinal Observed Variables: A Monte Carlo Simulation.” Funded by the Ministry of Science and Technology (科技部),NTD 610,000 2017–2018
- Principal Investigator**, “Identifying a Credible Referent Variable for Measurement Invariance Testing: A MIMIC-interaction Modeling Approach.” Funded by the Ministry of Science and Technology (科技部),NTD 745,000 2016–2017
- Co-Investigator**, “Development of school readiness curricular based measurement system.” Funded by Institute of Education Sciences, NTD 49,654,000 2011–2015
- Principal Investigator**: Jason Anthony, Ph.D., University of Texas Medical School at Houston
- Principal Investigator**, “Confirmatory factor analysis with ordinal data: Comparing robust maximum likelihood and robust weighted least squares.” Funded by The Graduate School & College of Education, Michigan State University, NTD 180,000 2011
- Advisor**: Tenko Raykov, Ph.D., Michigan State University
- Principal Investigator**, “Psychometric data on the Life Orientation Test: Confirmatory factor analyses and measurement invariance with ordinal data.” Funded by The Graduate School & College of Education, Michigan State University, NTD 180,000 2010
- Advisor**: Tenko Raykov, Ph.D., Michigan State University
- Co-Investigator**, “Peer and parental supports of low-income youths’ agency and educational attainment.” Funded by the Institute for Social Research, University of Michigan, NTD 9,000 2010
- Principal Investigator**: Matthew Diemer, Ph.D., Michigan State University

HONORS AND AWARDS

Teaching Excellence Award –中山大學教學績優獎 , National Sun Yat-sen University, Taiwan	2020
Graduate Mentoring Award –中山大學管理學院優良導師獎 , College of Management, National Sun Yat-sen University, Taiwan	2019
Graduate Mentoring Award –中山大學管理學院優良導師獎 , College of Management, National Sun Yat-sen University, Taiwan	2017
Sun Yat-sen Junior Management Scholar –中山大學管理學院逸仙新進管理學者獎 , College of Management, National Sun Yat-sen University, Taiwan	2017
New Faculty Award –中山大學新進教師獎勵 , National Sun Yat-sen University, Taiwan	2017
Sun Yat-sen Junior Management Scholar –中山大學管理學院逸仙新進管理學者獎 , College of Management, National Sun Yat-sen University, Taiwan	2016
New Faculty Award –中山大學新進教師獎勵 , National Sun Yat-sen University, Taiwan	2016
Dissertation Completion Fellowship (NTD 180,000), The Graduate School & College of Education, Michigan State University	2014
Anderson-Schulle Endowed Fellowship in International Education (NTD 90,000), College of Education, Michigan State University	2013
Sponsorship Recipient , Teacher Education Study in Mathematics (TEDS-M) Workshop, College of Education, Michigan State University	2012
Summer Research Fellowship (NTD 180,000), College of Education & The Graduate School, Michigan State University	2011
Walker Hill Fellowship in Measurement and Evaluation (NTD 622,140), College of Education, Michigan State University	2010 – 2012
Summer Research Fellowship (NTD 180,000), College of Education & The Graduate School, Michigan State University	2010
Graduate Student Travel Funding Fellowship (NTD 10,500), The Graduate School, Michigan State University	2010
Professional Development Fellowship for Conference Presentation (NTD 61,500 in total from 2009 to 2013), Department of Counseling, Educational Psychology, & Special Education, Michigan State University	2009 – 2013
Graduate Assistantship , Department of Counseling, Educational Psychology, & Special Education, Michigan State University	2008 – 2013
Department Fellowship (NTD 90,000), Department of Counseling, Educational Psychology, & Special Education, Michigan State University	2008
Graduate Fellowship –政治大學教育研究所獎學金 (NTD 21,000), Department of Education, National ChengChi University, Taiwan	2003
Chiu-Kui Wang Endowed Fellowship –中央大學數學系王九達教授獎學金 (NTD 22,500), Department of Mathematics, National Central University, Taiwan	2001
Academic Achievement Year Award –中央大學數學系書卷獎 , Department of Mathematics, National Central University, Taiwan	1999 – 2002

TEACHING

Institute of Human Resource Management, National Sun Yat-sen University

Ph.D. Program

Seminar of Research Methods – Latent Variable Modeling 潛在變項模式 (Spring, 2016)

Test Construction and Development in Human Resource Management 人力資源管理的測驗與發展 (Fall, 2016; Fall, 2018)

Structural Equation Modeling 結構方程模式 (Fall, 2017; Fall, 2019)

Advanced Research Methods II 高等研究方法二 (Spring, 2018; Spring 2019; Spring, 2020)

Independent Studies of Assessment Methods in Workplace 人力資源測驗評量專題研究 (Spring, 2018; Spring, 2019; Spring, 2020)

Master Program

Applied Statistics and Data Analysis 應用統計與資料分析 (Spring, 2016; Fall, 2016; Fall, 2017; Fall, 2018; Fall, 2019)

Research Methodology II 研究方法二 (Spring, 2017; Spring, 2018; Spring 2019; Spring 2020)

International Business MBA, National Sun Yat-sen University

Statistics and Quantitative Methods 統計與計量方法 (Spring, 2017; Fall, 2017; Fall, 2018; Fall, 2019)

TEACHING ASSISTANTSHIP

Responsibilities: giving lectures, initiating homework assignment discussion, writing midterm exam questions, developing course materials, helping lecture preparation, holding office hours & problem-solving sessions, and grading homework & exams.

I. Department of Counseling, Educational Psychology, & Special Education, Michigan State University

Psychometric Theory I 2014

Instructor: Tenko Raykov, Ph.D.

Quantitative Methods in Educational Research I 2013

Instructor: William Schmidt, Ph.D.

Quantitative Methods in Educational Research II 2013

Instructor: Spyros Konstantopoulos, Ph.D.

Multivariate Statistics 2012

Instructors: William Schmidt, Ph.D. & Richard Houang, Ph.D.

Latent Variable Modeling 2012

Instructor: Tenko Raykov, Ph.D.

Quantitative Methods in Educational Research I Instructor: Kimberly Maier, Ph.D.	2010
Quantitative Methods in Educational Research I Instructor: Spyros Konstantopoulos, Ph.D.	2009

II. Department of Education & Institute of Teacher Education, National ChengChi University (國立政治大學教育系 & 師資培育中心), Taiwan

Special Education (特殊教育) , Instructor: Shu-Shen Shih (施淑慎), Ph.D.	2004
Introduction to Mathematics & Calculus (普通數學) , Instructor: Chia-Chun Tung (童甲春), Ph.D.	2002 – 2003

RESEARCH ASSISTANTSHIP

Responsibilities: assisting in literature review, research design, data management, & data analysis, drafting the manuscript, the revision, & the revise-and-resubmit cover letter, providing suggestions & comments on grant proposals & research projects, and mentoring junior graduate & undergraduate students.

I. Department of Counseling, Educational Psychology, & Special Education, Michigan State University

Project: “Critical consciousness and pathways to social mobility among marginalized youth.” **Supervisor:** Matthew Diemer, Ph.D. 2013

Project: “The impact of Indiana’s system of diagnostic assessments on student achievement outcomes.” **Supervisor:** Spyros Konstantopoulos, Ph.D. 2010
– 2012

Projects: (1) “Critical consciousness and political engagement among marginalized youth” 2008
& (2) “Differential effects of contextual supports on low-income youths’ postsecondary persistence.” **Supervisor:** Matthew Diemer, Ph.D. – 2010

II. Institute of Teacher Education, National ChengChi University

(國立政治大學師資培育中心), Taiwan

Projects: (1) “The relation of self-determination and achievement goals to Taiwanese eighth graders’ behavioral and emotional engagement in schoolwork” & (2) “An examination of factors related to Taiwanese adolescents’ reports of avoidance strategies.” 2007
– 2008
Supervisor: Shu-Shen Shih (施淑慎), Ph.D.

III. Fulbright Taiwan (學術交流基金會), Taiwan

Project: Creative education programs in Taiwan: Development and implementation 2006

PROFESSIONAL SERVICE

(I) Academic Service

(a) Invited Journal Manuscript Reviewer

Psychological Methods

Structural Equation Modeling: A Multidisciplinary Journal

Behavior Research Methods

Multivariate Behavioral Research

Educational and Psychological Measurement

Behaviormetrica

中華心理學刊

(b) Invited Journal Manuscript Co-Reviewer

Sociological Methods and Research

(III) Mentorship Service

Research Practicum Committee, Mentee Luke Rapa	2013
Educational Psychology and Educational Technology, Michigan State University	
Chair: Matthew Diemer, Ph.D.	
Research Practicum Committee, Mentee Nazli Uygun	2013
Measurement and Quantitative Methods, Michigan State University	
Chair: Mark Reckase, Ph.D.	
Research Practicum Committee, Mentee Wei Li	2012
Measurement and Quantitative Methods, Michigan State University	
Chair: Spyros Konstantopoulos, Ph.D.	
Research Practicum Committee, Mentee Chi Chang	2012
Measurement and Quantitative Methods, Michigan State University	
Chair: Kimberly Maier, Ph.D.	

REFEREED PRESENTATIONS [student co-authors denoted with *]

- Li, C.** (2020, July). *Comparing MIMIC-interaction with moderated nonlinear factor analysis to locate referent variables*. Poster accepted by the 2020 International Meeting of Psychometric Society (IMPS), College Park, MA.
- Li, C.,** & Yang, S.* (2019, July). *Identifying referent variable(s) using constant anchor method in MIMIC-interaction modeling*. Poster presented at the 2019 International Meeting of Psychometric Society (IMPS), Santiago, Chile.
- Yang, S.* , & **Li, C.** (2019, July). *The development of Workplace Friendship Scale*. Paper will be

presented at the 2019 European Conference on Psychological Assessment (ECPA), Brussel, Belgium.

- Li, C., & Yang, S.*** (2018, July). *Statistical estimation of SEM models with mixed-scale observed variables*. Poster presented at the 2018 International Meeting of Psychometric Society (IMPS), New York, NY.
- Li, C., & Jung, K.** (2017, July). *Identifying one credible referent variable for measurement invariance testing: A MIMIC-interaction modeling approach*. Poster presented at the 2017 International Meeting of Psychometric Society (IMPS), Zürich, Switzerland.
- Li, C.** (2017, July). *Psychometric evaluation of the Chinese version of the Emotion Regulation Questionnaire in Taiwanese college students*. Poster presented at the 2017 European Conference on Psychological Assessment (ECPA), Lisbon, Portugal.
- Li, C.** (2015, April). The performance of robust estimators in ordinal structural regression models. Paper presented at the 2015 National Council on Measurement in Education Annual Meeting, Chicago, IL.
- Diemer, M. A., **Li, C.**, Gupta, T., Uygun, N., Rogers-Sirin, L., & Sirin, S. R. (2013, April). *A missing piece in the immigrant paradox puzzle? Measurement invariance of school support and school engagement across generations*. Paper presented at the 2013 Society for Research in Child Development Biennial Meeting, Seattle, WA.
- Li, C.** (2013, April). *Confirmatory factor analysis with ordinal data: The impacts of observed distribution and the number of categories*. Poster presented at the 2013 National Council on Measurement in Education Annual Meeting, San Francisco, CA.
- Diemer, M. A., & **Li, C.** (2012, October). Longitudinal roles of pre-college context's in low-income youths' postsecondary persistence. In M. A. Diemer (Chair), *Impacts of socioeconomic status on transitions of high school into postsecondary institutions*. Symposium held at Society for Research in Child Development's "Transitions from Adolescence to Adulthood" Themed Meeting, Tampa, FL.
- Li, C.** (2012, April). *Testing for measurement invariance with ordinal data: A Robust Weighted least squares approach*. Poster presented at the 2012 American Educational Research Association Annual Meeting, Vancouver, Canada.
- Konstantopoulos, S., Miller, S., van der Ploeg, A., **Li, C.**, & Traynor, A. (2011, September). *The impact of Indiana's system of diagnostic assessments on mathematics achievement*. Paper presented at the 2011 Society for Research on Educational Effectiveness Conference, Washington, DC.
- Diemer, M. A., & **Li, C.** (2011, March). Critical consciousness development and political engagement among marginalized youth. In M. A. Diemer (Chair), *Civic and political development: Diverse youth, diverse contexts, diverse forms of participation*. Symposium held at Society for Research in Child Development Biennial Meeting, Montreal, Canada.
- Li, C.** (2010, August). *Taiwanese 8th graders' attitudes toward mathematics and achievement in mathematics*. Poster presented at the 118th Annual Convention of the American Psychological Association, San Diego, CA.
- Diemer, M. A., **Li, C.**, & Ortega, L. (2010, September). *Longitudinal predictors of low-income youths'*

postsecondary persistence. Paper presented at the Panel Survey of Income Dynamics New Results Workshop, Ann Arbor, MI.

Diemer, M. A., & Li, C. (2010, June). *Fostering social action and traditional political participation among marginalized youth*. Paper presented at the 2010 Division 45 Conference, Ann Arbor, MI.

Diemer, M. A., & Li, C. (2010, April). *Critical consciousness and political participation among marginalized youth*. Poster presented at AERA Early Career Scholars Poster Session, American Educational Research Association Annual Meeting, Denver, CO.

Li, C. (2009, August). *College students' emotion regulation, regulatory focus and optimism*. Poster presented at the 117th Annual Convention of the American Psychological Association, Toronto, Canada.

Li, C. & Wu, J. (2008, August). *Optimism, creative self-efficacy, and innovative behaviors in college students*. Poster presented at the 116th Annual Convention of the American Psychological Association, Boston, MA.

Wu, J., Li, C., & Lin, W. (2008, July). *Valuing new ideas, attitudes toward team creativity, creative self-efficacy and innovative behaviors*. Paper presented at the 2008 International Conference of International Center for Innovation in Education (ICIE), Paris, France.

Li, C., & Wu, J. (2007). *Optimism, creative attitudes, creative self-efficacy and innovative behavior in directors of academic affairs of senior high school* (高中教務主任的樂觀、觀念產生態度、創造力自我效能與創意行為之關係). Paper presented at the 46th Annual Conference of Taiwanese Psychological Association (台灣心理學年會), Tainan, Taiwan.

Li, C., & Wu, J. (2006). *The development of optimism scales* (樂觀量表的編制). Paper presented at the 7th Annual Conference of Psychological and Educational testing (台灣心理與教育測驗年會), Taipei, Taiwan.

Li, C., & Wu, J. (2006). *Optimism and creativity in college students* (大學生的樂觀與創造力之關係). Paper presented at the 45th Annual Conference of Taiwanese Psychological Association (台灣心理學年會), Taipei, Taiwan.

MANUSCRIPTS IN PREPARATION

Evaluation of composite reliability with ordinal variables using robust maximum likelihood estimation: A Monte Carlo study

Identifying a credible reference variable for measurement invariance testing: A MIMIC model with linear and moderated effects.

Testing for measurement invariance in multiple populations with ordinal data using a robust weighted least squares approach.

Latent class analysis of the Emotional Regulation Scale.

RESEARCH INTERESTS

Methodology: Factor Analysis, Measurement Invariance, Latent Growth Curve, Latent Class Analysis, Longitudinal Data Analysis, Categorical Data Analysis, Differential Item Functioning,

Multilevel Modeling, & Generalized Linear Model

Developmental/Educational Psychology and Positive Psychology: Optimism, Creativity, Self-efficacy, Motivation, Learning, Resilience, & Educational Expectation

COMPUTER PROGRAMMING

Proficient: *Mplus*, HLM, SAS, & SPSS

Intermediate: LISREL, EQS, AMOS, STATA, R, IRTPRO, flexMIRT, MATLAB, TESTFACT, & BILOG-MG

PROFESSIONAL AFFILIATIONS

American Psychometric Society

American Psychological Association

(Division 15: Educational Psychology; Division 5: Evaluation, Measurement and Statistics)

National Council on Measurement in Education

American Educational Research Association

(Division D: Measurement & Research Methodology)

International Positive Psychology Association