

# Curriculum Vitae

CHENG-HSIEN LI (李澄賢), Ph.D.

Institute of Human Resource Management

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## ACADEMIC APPOINTMENTS

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**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

**Assistant Professor**, Children’s Learning Institute, Department of Pediatrics, University of Texas Health Science Center at Houston – Medical School 2014.09–2016.01

## EDUCATION

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

**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

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- Li, C.** (2015). The performance of ML, DWLS, and ULS estimation with robust corrections in structural equation models with ordinal variables. *Psychological Methods (Revised & Resubmitted)*. [SSCI: Impact Factor = 7.338; Rank = 6/129 in Psychology, Multidisciplinary]
- Li, C.** (in press). Confirmatory factor analysis with ordinal data: Comparing robust maximum likelihood and diagonally weighted least squares. *Behavior Research Methods*. [SSCI: Impact Factor = 2.928; Rank = 1/13 in Psychology, Mathematics & Rank = 16/129 in Psychology, Multidisciplinary]
- 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 = 1.621; Rank = 17/55 Psychology, Educational]
- 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 = 4.141; Rank = 4/68 in Psychology, Developmental]
- 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 = 1.154; Rank 8/13 in Psychology, Mathematics & Rank 30/55 in Psychology, Educational]
- 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 = 2.751; Rank 26/119 in Psychology, Clinical]
- Diemer, M. A., & **Li, C.** (2011). Critical consciousness and political engagement among marginalized youth. *Child Development, 82*, 1815-1833.★ [SSCI: Impact Factor = 4.061; Rank = 1/55 in Psychology, Educational & Rank = 5/68 in Psychology, Developmental]
- 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 = 1.46; Rank = 25/55 in Psychology, Educational & Rank = 49/129 in Psychology, Multidisciplinary]
- 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

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- Co-Investigator**, “Development of school readiness curricular based measurement system.”  
Funded by Institute of Education Sciences (NTD 49,654,000) 2011
- Principal Investigator**: Jason Anthony, Ph.D., University of Texas Medical School at Houston – 2015
- 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

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- Dissertation Completion Fellowship** (NTD 180,000), The Graduate School & College of  
Education, Michigan State University 2014
- Anderson-Schwille 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

<b>Department Fellowship</b> (NTD 90,000), Department of Counseling, Educational Psychology, & Special Education, Michigan State University	2008
<b>Graduate Fellowship – 政治大學教育研究所獎學金</b> (NTD 21,000), Department of Education, National ChengChi University, Taiwan	2003
<b>Chiu-Kui Wang Endowed Fellowship – 中央大學數學系王九達教授獎學金</b> (NTD 22,500), Department of Mathematics, National Central University, Taiwan	2001
<b>Academic Achievement Year Award – 中央大學數學系書卷獎</b> , Department of Mathematics, National Central University, Taiwan	1999 – 2002

## **TEACHING ASSISTANTSHIP**

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**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*

<b>Psychometric Theory I</b>	2014
Instructor: Tenko Raykov, Ph.D.	
<b>Quantitative Methods in Educational Research I</b>	2013
Instructor: William Schmidt, Ph.D.	
<b>Quantitative Methods in Educational Research II</b>	2013
Instructor: Spyros Konstantopoulos, Ph.D.	
<b>Multivariate Statistics</b>	2012
Instructors: William Schmidt, Ph.D. & Richard Houang, Ph.D.	
<b>Latent Variable Modeling</b>	2012
Instructor: Tenko Raykov, Ph.D.	
<b>Quantitative Methods in Educational Research I</b>	2010
Instructor: Kimberly Maier, Ph.D.	
<b>Quantitative Methods in Educational Research I</b>	2009
Instructor: Spyros Konstantopoulos, Ph.D.	

### *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*

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

## **RESEARCH ASSISTANTSHIP**

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**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” & (2) “Differential effects of contextual supports on low-income youths’ postsecondary persistence.” **Supervisor:** Matthew Diemer, Ph.D. 2008 – 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 – 2008 & 2003  
**Supervisor:** Jing-Jyi Wu (吳靜吉), Ph.D.

## **PROFESSIONAL SERVICE**

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### *(I) Academic Service*

- (a) Invited Journal Manuscript Reviewer  
***Educational and Psychological Measurement***  
***Multivariate Behavioral Research***
- (b) Invited Journal Manuscript Co-Reviewer  
***Sociological Methods and Research***

### *(II) 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

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- Li, C.** (2015). 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). *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). *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). 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). *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). *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). 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). *Taiwanese 8<sup>th</sup> graders' attitudes toward mathematics and achievement in mathematics*. Poster presented at the 118<sup>th</sup> Annual Convention of the American Psychological Association, San Diego, CA.
- Diemer, M. A., **Li, C.**, & Ortega, L. (2010). *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). *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). *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). *College students' emotion regulation, regulatory focus and optimism*. Poster presented at the 117<sup>th</sup> Annual Convention of the American Psychological Association, Toronto, Canada.
- Li, C. & Wu, J. (2008). *Optimism, creative self-efficacy, and innovative behaviors in college students*. Poster presented at the 116<sup>th</sup> Annual Convention of the American Psychological Association, Boston, MA.
- Wu, J., Li, C., & Lin, W. (2008). *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 46<sup>th</sup> 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 7<sup>th</sup> 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 45<sup>th</sup> Annual Conference of Taiwanese Psychological Association (台灣心理學年會), Taipei, Taiwan.

## MANUSCRIPTS IN PREPARATION

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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

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**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**

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

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

## **PROFESSIONAL AFFILIATIONS**

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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