

# MAN CHEN

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## EDUCATION

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- 2024 Ph.D. in Quantitative Methods, Department of Educational Psychology  
University of Wisconsin-Madison
- 2023 M.S. in Statistics, Department of Statistics  
University of Wisconsin-Madison
- 2018 M.Ed. in Quantitative Methods, Department of Educational Psychology  
The University of Texas at Austin
- 2011 LL.B. in Political Science and Public Administration  
China Youth University of Political Studies

## PROFESSIONAL EXPERIENCE

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- 2024-present The University of Texas at Austin  
Assistant Professor, Department of Educational Psychology  
Quantitative Methods Program

## RESEARCH INTERESTS

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**Meta-analysis:** methods for handling dependent effect sizes, selective reporting, and publication bias

**Single-case experimental designs:** effect size metrics, statistical analysis and meta-analysis of single-case experimental designs, model estimation and selection, Bayesian methods

**Multilevel modeling:** effect size estimation, robust variance estimation

## PEER-REVIEWED PUBLICATIONS

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Pustejovsky, J. E., & **Chen, M.** (2024). Equivalences between ad hoc strategies and multivariate models for meta-analysis of dependent effect sizes. *Journal of Educational and Behavioral Statistics*, 0(0). <https://doi.org/10.3102/10769986241232524>

Patall, E. A., Yates, N., Lee, J., **Chen, M.**, Bhat, B. H., Lee, K., Beretvas, S. N., Lin, S., Yang, M., Jacobson, N. G., Harris, E., & Hanson, D. J. (2023). A meta-analysis of teachers' provision of structure in the classroom and students' academic competence beliefs, engagement, and achievement. *Educational Psychologist*, 59(1), 42–70. <https://doi.org/10.1080/00461520.2023.2274104>

**Chen, M.**, Pustejovsky, J. E., Klingbeil, D. A., & Van Norman, E. (2023). Between-Case Standardized Mean Differences: Flexible Methods for Single-Case Designs. *Journal of School Psychology*, 98, 16-38. <https://doi.org/10.1016/j.jsp.2023.02.002>

Reichle, J., Pustejovsky, J. E., Vannest, K., Foster, M., Pierson, L., Wattanawongwan, S., **Chen, M.**, Fuller, M. C., Haas, A., Bhat, B. H., Sallese, M. R., Smith, S. D., Yllades, V., Rodriguez, D., Yoro, A., & Ganz, J. B. (2023). Systematic review of variables related to instruction in augmentative and alternative communication implementation: Group and single-case design. *American Journal of Speech-Language Pathology*, advance online publication. [https://doi.org/10.1044/2023\\_AJSLP-22-00314](https://doi.org/10.1044/2023_AJSLP-22-00314)

Ganz, J. B., Pustejovsky, J. E., Reichle, J., Vannest, K. J., Foster, M., Pierson, L. M., Wattanawongwan, S., Bernal, A. J., **Chen, M.**, Haas, A. N., Liao, C.-Y., Sallese, M. R., Skov, R., & Smith, S. D. (2022). Participant characteristics predicting communication outcomes in AAC implementation for individuals with ASD and IDD: a systematic review and meta-analysis. *Augmentative and Alternative Communication*, 39(1), 7-22. <https://doi.org/10.1080/07434618.2022.2116355>

**Chen, M.**, & Pustejovsky, J. E. (2022). Multi-level meta-analysis of single-case experimental designs using robust variance estimation. *Psychological Methods*. Advance online publication. <https://doi.org/10.1037/met0000510>

Ganz, J. B., Pustejovsky, J. E., Reichle, J., Vannest, K. J., Foster, M., Fuller, M. C., Pierson, L. M., Wattanawongwan, S., Bernal, A., **Chen, M.**, Haas, A. N., Skov, R., Smith, S. D., & Yllades, V. (2022). Augmentative and Alternative Communication intervention targets for school-aged participants with ASD and ID: A single-case systematic review and meta-analysis. *Review Journal of Autism and Developmental Disorders*, advance online publication. <https://doi.org/10.1007/s40489-022-00326-6>

Ganz, J. B., Pustejovsky, J. E., Reichle, J., Vannest, K. J., Foster, M., Haas, A. N., Pierson, L. M., Wattanawongwan, S., Bernal, A., **Chen, M.**, Skov, R., & Smith, S. D. (2022). Considering instructional contexts in AAC interventions for people with ASD and/or IDD experiencing complex communication needs: A single-case design meta-analysis. *Review Journal of Autism and Developmental Disorders*, advance online publication. <https://doi.org/10.1007/s40489-022-00314-w>

Salamanca-Balen, N., Merluzzi, T. V., & **Chen, M.** (2021). The effectiveness of hope-fostering interventions in palliative care: a systematic review and meta-analysis. *Palliative Medicine*, 35(4), 710-728. <https://doi.org/10.1177/0269216321994728>

### **NON-PEER-REVIEWED PUBLICATIONS**

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Ganz, J., Pustejovsky, J. E., Reichle, J., Vannest, K., Pierson, L., Wattanawongwan, S., **Chen, M.**, Foster, M., Fuller, M., Haas, A., Hamilton, B., Sallese, M., Smith, S. D., & Yllades, V. (2020). Methodology: Systematic review and meta-analysis of the AAC literature for people with autism spectrum disorder or intellectual disabilities who have complex communication needs through 2020. Available electronically from <https://hdl.handle.net/1969.1/189532>

### **MANUSCRIPTS UNDER SUBMISSION**

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Vite, A., Patall, E. A., & **Chen, M.** Relationships between experiences of autonomy and well(ill)-being for K-12 Youth: A meta-analysis.  
*Submitted to Educational Psychology Review*

### **MANUSCRIPTS IN PREPARATION**

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Pustejovsky, J. E., Klingbeil, D. A., & Van Norman, E. & **Chen, M.** (2022). Empirical benchmarks for between-case standardized mean differences from single-case multiple baseline designs examining academic interventions.

**Chen, M.** & Pustejovsky, J. E. (2023). Investigating methods for adjusting selective reporting bias in meta-analysis of dependent effect sizes.

### **SOFTWARE**

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Pustejovsky, J. E. & **Chen, M.** (2023). *lmeInfo: Information Matrices for 'lmeStruct' and 'glsStruct' Objects* (R package version 0.3.2). URL: <https://jepusto.github.io/lmeInfo>  
Downloads as of August 2024: 82,000 (1,281 per month)

Pustejovsky, J. E., **Chen, M.**, & Hamilton, B. J. (2023). *scdhlm: Estimating hierarchical linear models for single-case designs*. (R package version 0.7.3). URL:

<https://jepusto.github.io/scdhlm>

Downloads as of August 2024: 74, 000 (687 per month)

Pustejovsky, J. E., **Chen, M.**, Hamilton, B., & Grekov, P. (2023). *scdhlm: A web-based calculator for between-case standardized mean differences (Version 0.7.2)* [Web application]. URL: <https://jepusto.shinyapps.io/scdhlm>

Pustejovsky, J. E., **Chen, M.**, & Swan, D. M. (2023). *SingleCaseES: A calculator for single-case effect size indices*. (R package version 0.7.2). URL:

<https://jepusto.github.io/SingleCaseES>

Downloads as of August 2024: 50,000 (727 per month)

Pustejovsky, J. E., **Chen, M.**, Grekov, P. & Swan, D. M. (2023). *Single-case effect size calculator (Version 0.7.2)* [Web application]. URL:

<https://jepusto.shinyapps.io/SCD-effect-sizes>

## CONFERENCE PRESENTATIONS

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**Chen, M.**, Pustejovsky, J. E., Klingbeil D. A., & Van Norman E. R. (2023, May). Between-case standardized mean differences: Flexible methods for single-case designs. Poster presented at the Wing Institute Single Case Conference, Nashville, TN.

Pustejovsky, J. E., & **Chen, M.**, Klingbeil D. A., & Van Norman E. R. (2023, April). Empirical benchmarks for between-case standardized mean differences from single-case multiple baseline designs examining academic interventions. Paper presented at the American Educational Research Association annual convention, Chicago, IL.

Pustejovsky, J. E., & **Chen, M.** (2022, April). Synthesis of non-overlap of all pairs using logistic transformation or binomial generalized linear mixed model. Poster presented at the American Educational Research Association annual convention, online.

**Chen, M.**, & Pustejovsky, J. E. (2022, April). Multi-level meta-analysis of single-case experimental designs using robust variance estimation. Paper presented at the American Educational Research Association annual convention, San Diego, CA.

**Chen, M.**, Pustejovsky, J. E., Klingbeil D. A., & Van Norman E. R. (2022, April). Between-case standardized mean differences: Flexible methods for single-case designs. Poster presented at the American Educational Research Association annual convention, online.

Yates, N. M., & **Chen, M.** (2022, April). Black students' motivation and school outcomes: A meta-analysis. Paper presented at the American Educational Research Association annual convention, San Diego, CA.

**Chen, M.**, & Pustejovsky, J. E. (2021, April). Meta-analysis of Single-case Experimental Designs Using Robust Variance Estimation. Poster presented at the American Educational Research Association annual convention, online.

**Chen, M.**, & Whittaker, T. A. (2020, April). Assessing mediation in a multilevel SEM framework for the 2-1-1 and 1-1-1 design [Roundtable session]. Annual Meeting of the American Educational Research Association (AERA), San Francisco, CA. (Conference canceled due to COVID-19)

**Chen, M.**, Daniel, J., Costello, L., & Way, P. J. (2020, April). The effect of math tutoring on college students' academic achievement: A propensity score matching approach [Roundtable session]. Annual Meeting of the American Educational Research Association (AERA), San Francisco, CA. (Conference canceled due to COVID-19)

Lin, S., **Chen, M.**, Costello, L., & Valdez, L. (2020, April). Belonging and utility value of first year interest group college students: A factor mixture model [Roundtable session]. Annual Meeting of the American Educational Research Association (AERA), San Francisco, CA. (Conference canceled due to COVID-19)

Salamanca-Balen, N., **Chen, M.**, & Merluzzi, T. (2020 April). The effectiveness of hope-fostering interventions in palliative care: A systematic review and meta-analysis. Poster presented at the 41st Annual Meeting & Scientific Sessions of the Society of Behavioral Medicine, San Francisco, CA. (Conference canceled due to COVID-19)

**Chen, M.**, & Beretvas, S. N. (2019, April). Centering covariates in mixed-effects meta-regression models. Poster presented at the American Educational Research Association annual convention, Toronto, Canada.

Costello, L., Morgan, J., & **Chen, M.**, (2019, April). Results from a collaborative assessment of the core curriculum at a large research university. Presented at the 6<sup>th</sup> Annual LEAP Conference, Houston, TX.

## **RESEARCH EXPERIENCE**

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Sep. 2020 to      *Project Assistant*, Wisconsin Center for Education Research

Aug. 2023      University of Wisconsin-Madison

- Developed multiple R packages and Shiny apps including the

*lmeInfo*, *scdhlms* and *SingleCaseES* R packages and Shiny apps.

- Conducted data cleaning and statistical analyses for meta-analysis and single-case experimental design projects.

Jan. 2019 to Jul. 2020      *Graduate Research Assistant*, Department of Educational Psychology  
The University of Texas at Austin

- Coded and analyzed data for multiple projects on research synthesis and meta-analysis.
- Developed the *lmeInfo* and *scdhlms* R packages.

Jun. 2017 to Jan. 2019      *Graduate (Research) Assistant*, School of Undergraduate Studies  
The University of Texas at Austin

- Conducted quantitative and qualitative data analyses.
- Developed automated procedures for quarterly and yearly reports focusing on data visualization.

## **TEACHING EXPERIENCE**

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Aug, 2023 to May, 2024      *Teaching Assistant*, Department of Educational Psychology

Advisor: James E. Pustejovsky  
University of Wisconsin-Madison

July, 2022      *Teaching Assistant* (workshop)

Instructor: James E. Pustejovsky  
IES Summer Research Training Institute: Single-Case Intervention Design and Analysis, Madison, WI.

Jan. 2019 to May. 2019      *Graduate Teaching Assistant*, Item Response Theory (graduate course)

Instructor: Seung W. Choi  
The University of Texas at Austin

May. 2017      *Teaching Assistant*, Data Analysis Using SPSS (workshop)

Instructor: Lindsey J. Smith  
The University of Texas at Austin

## **HONORS AND AWARDS**

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2023      Busk Travel Award  
University of Wisconsin-Madison

2019-2020	William L. Hays Endowed Fellowship in Educational Psychology The University of Texas at Austin
2019	Professional Development Award The University of Texas at Austin
2018-2019	Texas New Scholar Award The University of Texas at Austin
2016	Educational Psychology Endowed Scholarship The University of Texas at Austin

## **SERVICE**

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Proposal reviews for:

- Society for Research on Educational Effectiveness (2023)
- American Educational Research Association Systematic Reviews & Meta-Analysis SIG (2022-2024)

Journal reviews for:

- British Journal of Mathematical and Statistical Psychology (2024)
- Review of Education (2024)
- Psychologic Belgica (2024)
- Journal of Applied Behavior Analysis (2023)
- Journal of Positive Behavior Interventions (2023)

Assisted journal reviews for:

- Behavior Research Methods (2023)
- Research Synthesis Methods (2021)
- Journal of Research on Educational Effectiveness (2021)

## **COMPUTER SKILLS**

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R | Python | Git | Docker | Matlab | SAS | Mplus | Stata | SPSS

## **MEMBERSHIP**

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American Educational Research Association