

# Dale S. Kim

**Address:** Math Sciences Building 8125, 520 Portola Plaza, Los Angeles, California 90095

**Tel:** (310) 825-8430 **E-mail:** [daleskim@stat.ucla.edu](mailto:daleskim@stat.ucla.edu) **Website:** [daleskim.io](http://daleskim.io)

## Professional Appointments

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**Fixed-Term Assistant Professor**

July 2022 – Present

Department of Statistics & Data Science  
University of California, Los Angeles, CA

## Education

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**Ph.D., Statistics**

September 2019 – June 2022

University of California, Los Angeles, CA

**Ph.D., Quantitative Psychology**

September 2015 – December 2021

*Minor: Computational Cognition*  
University of California, Los Angeles, CA

**M.S., Statistics**

September 2019 – June 2020

University of California, Los Angeles, CA

**M.A., Quantitative Psychology**

September 2015 – June 2019

University of California, Los Angeles, CA

**B.S., Psychology**

January 2011 - June 2014

*Concentration: Mathematics and Statistics*  
University of Washington, Seattle, WA

## Research Publications

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**Kim, D.S.** (2025+). A hybrid EM algorithm for linear two-way interactions with missing data. *Journal of Educational and Behavioral Statistics*. <https://doi.org/10.3102/10769986241304015>

**Kim, D.S.**, Lu, A., & Zhou, Q. (2025). The Correlation Thresholding Algorithm for exploratory factor analysis. *Structural Equation Modeling: A Multidisciplinary Journal*, 32(6), 966-979. <https://doi.org/10.1080/10705511.2025.2512350>

**Kim, D. S.**, & Zhou, Q. (2023). Structure learning of latent factors via clique search on correlation thresholded graphs. *Proceedings of the 40th International Conference on Machine Learning*. 202, 16978-16996. <https://proceedings.mlr.press/v202/kim23aa.html>

**Kim, D. S.**, & McCabe, C. J. (2022). The partial derivative framework for substantive regression effects. *Psychological Methods*, 27(1), 121–141. <https://doi.org/10.1037/met0000440>

McCabe, C. J., Halvorson, M. A., King, K. M., Cao, X., & **Kim, D. S.** (2022). Interpreting interaction effects in generalized linear models of nonlinear probabilities and counts. *Multivariate Behavioral Research*, 57(2–3), 243–263. <https://doi.org/10.1080/00273171.2020.1868966>

Halvorson, M. A., McCabe, C. J., **Kim, D. S.**, Cao, X., & King, K. M. (2022). Making sense of some odd ratios: A tutorial and improvements to present practices in reporting and visualizing quantities of interest for binary and count outcome models. *Psychology of Addictive Behaviors*, 36(3), 284–295. <https://doi.org/10.1037/adb0000669>

McCabe, C. J., **Kim, D. S.**, & King, K. M. (2018). Improving present practices in the visual display of interactions. *Advances in Methods and Practices in Psychological Science*, 1(2), 147-165. <https://doi.org/10.1177/2515245917746792>

King, K. M., **Kim, D. S.**, & McCabe, C. J. (2018). Random responses inflate statistical estimates in heavily skewed addictions data. *Drug and Alcohol Dependence*, 183, 102-110. <https://doi.org/10.1016/j.drugalcdep.2017.10.033>

**Kim, D. S.**, Reise, S. P. & Bentler, P. M. (2018). Identifying aberrant data in structural equation models with IRLS-ADF. *Structural Equation Modeling: A Multidisciplinary Journal*, 24(3), 343-358. <https://doi.org/10.1080/10705511.2017.1379881>

**Kim, D. S.**, McCabe, C. J., Yamasaki, B. L., Louie, K. A. & King, K. M. (2018). Detecting careless responders with infrequency scales using an error balancing threshold. *Behavior Research Methods*, 50(5), 1960-1970. <https://doi.org/10.3758/s13428-017-0964-9>

Reise, S. P., **Kim, D. S.**, Mansolf, M. & Widaman, K. F. (2016). Is the bifactor model a better model or is it just better at modeling implausible responses? Application of iteratively reweighted least squares to the Rosenberg Self-Esteem Scale. *Multivariate Behavioral Research*, 51(6), 818-838. <https://doi.org/10.1080/00273171.2016.1243461>

## Invited Talks

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October 2025. *Learning Factor Analysis Structures via Clique Search on Correlation Thresholded Graphs*. Bioinformatics Interdisciplinary Research Seminar. University of California, Los Angeles.

May 2024. *Learning Factor Analysis Structures via Clique Search on Correlation Thresholded Graphs*. Graduate guest lecture, STATS 201C: Advanced Modeling and Inference. University of California, Los Angeles.

March 2023. *Learning Factor Analysis Structures via Clique Search on Correlation Thresholded Graphs*. Graduate guest lecture, STATS 212: Graphical Models. University of California, Los Angeles.

## Conference Presentations

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**Kim, D. S.**, & Zhou, Q. (2023). *Structure learning of latent factors via clique search on correlation thresholded graphs*. Poster presented at the 40th International Conference on Machine Learning. Honolulu, Hawaii, United States.

**Kim, D.S.**, McCabe, C. J., King, K. M. & Reise, S. P. (2017). *Count Models for Alcohol Consumption: Selecting Between Sampling and Structural Zero Hypotheses*. Poster presented at the 40th Annual Research Society on Alcoholism Scientific Meeting. Denver, Colorado, United States.

**Kim, D.S.** & Flaherty, B.P. (2013). *Associations between Smoking Categories and Related Characteristics across Demographic Groups*. Poster presented at the Washington State Joint Conference on Health. Wenatchee, Washington, United States.

**Kim, D.S.** & Flaherty, B.P. (2013). *Approaches to Identifying Tobacco Use Patterns*. Poster presented at the 16th Annual University of Washington Undergraduate Research Symposium. Seattle, Washington, United States.

## Mentored Student Presentations

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Lu, A., & **Kim, D.S.** (2025). *An Inverse Probability Weighting Approach to Missing Data in Regression Models*. Poster presented by Audrey Lu at the UCLA Psychology Undergraduate Research Conference. Los Angeles, California, United States.

Lu, A., & **Kim, D.S.** (2025). *An Inverse Probability Weighting Approach to Missing Data in Regression Models*. Contributed talk presented by Audrey Lu at UCLA Undergraduate Research Week. Los Angeles, California, United States.

## Research Grants

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Pathway to Independence Award, R00-AA030052, NIH/NIAAA (2024-2027)  
*Machine Learning methods of identifying person-level mechanisms of alcohol use among sexual and gender minority intersections*. PI: Connor J. McCabe. Total Award: \$726,700.  
Role: Statistical Consultant

## Fellowships and Awards

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Distinguished University Fellowship, UCLA (2021-2022). Total Award: \$1,500

Distinguished University Fellowship, UCLA (2016-2017). Total Award: \$1,000

Distinguished University Fellowship, UCLA (2015-2016). Total Award: \$45,000

## Teaching

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### STATS 13: Introduction to Statistics for Life and Health Sciences

- Median instructor rating: 9/9 across 24 classes (12 quarters)
- Average student enrollment per quarter: 306.5

## Academic Service

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### Ad-hoc Reviewer

- American Psychologist
- Assessment
- BMC Medical Research Methodology
- Journal of Abnormal Psychology
- Journal of Computational and Graphical Statistics
- Journal of the American Statistical Association
- Psychological Methods
- Scientific Reports
- Structural Equation Modeling: A Multidisciplinary Journal