

Han Du

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EDUCATION

Ph.D. in Quantitative Psychology 2018

University of Notre Dame

M.S. in Applied and Computational Mathematics and Statistics 2016

University of Notre Dame

B.A. in Psychology 2012

Beijing Normal University

POSITIONS HELD

Assistant Professor 04/2018 –

Department of Psychology
University of California, Los Angeles

Acting Assistant Professor 10/2017–3/2018

Department of Psychology
University of California, Los Angeles

PROFESSIONAL AFFILIATIONS

Psychometric Society

RESEARCHING INTERESTS

- Bayesian methods and statistical computing
- (Intensive) longitudinal data analysis and time series analysis

- Study design (e.g. sample size determination)
- Meta-analysis
- Missing data analysis

PUBLICATIONS

Gao, M. M., **Du, H.**, Davies, P. T., Cummings, E. Mark. (accepted). Marital conflict behaviors and parenting: Dyadic links over time. *Family Relations*.

Park, I. J. K., **Du, H.**, Wang, L., Williams, D. R., & Alegría, M. (in press). Racial/ethnic discrimination and mental health in Mexican-origin youths and their parents: Testing the “linked lives” hypothesis. *Journal of Adolescent Health*.

Du, H., Liu, F., & Wang, L. (2017). A Bayesian "fill-in" method for correcting for publication bias in meta-analysis. *Psychological Methods*, 22(4), 799-817.

Cummings, E. M., Taylor, L. K., **Du, H.**, Merrilees, C. E., Goeke-Morey, M., & Shirlow, P. A. (2017). Examining bidirectional pathways between political violence and child adjustment over time in Northern Ireland. *Journal of the American Academy of Child & Adolescent Psychiatry*, 00(00), 1-10.

Du, H., & Wang, L. (2017). Investigating reliabilities of intraindividual variability indicators with autocorrelated longitudinal data (abstract). *Multivariate Behavioral Research*, 1, 120-121.

Planalp, E.M., **Du, H.**, Braungart-Rieker, J.M., & Wang, L. (2017). Growth curve modeling to studying change: A comparison of approaches using longitudinal dyadic data with distinguishable dyads. *Structural Equation Modeling*, 24(1), 129-147.

Du, H., Zhang, Z., & Yuan, K.-H. (2016). Power analysis for t-test with non-normal data and unequal variances. In van der Ark, L.A., Culpepper, S., Douglas, J.A., Wang, W.-C., & Wiberg, M. (Eds.), *Proceedings of Quantitative Psychology: The 81st Annual Meeting of the psychometric Society*. New York, NY: Springer.

Du, H., & Wang, L. (2016). A Bayesian power analysis procedure considering uncertainty in effect size estimates from a meta-analysis. *Multivariate Behavioral Research*, 51(1), 589-605.

Du, H., & Wang, L. (2016). The impact of the number of dyads on estimation of dyadic data analysis using multilevel modeling. *Methodology*, 12(1), 21-31.

- Jiang, T., Zhang, W., Wen, W., Zhu, H., **Du, H.**, Zhu, X., Gao, X., Zhang, H., Dong, Q., & Chen, C. (2016). Reevaluating the two-representation model of numerical magnitude processing. *Memory & Cognition*, 44(1), 162-170.
- Li, J., Zhang, B., **Du, H.**, Zhu, Z., & Li, Y. (2015). Metacognitive planning: Development and validation of an online measure. *Psychological Assessment*, 27(1), 260-271.
- Du, H.**, Pang, B., Cheng, J., & Wang, A. (2013). Comparing online advertising with newspaper advertising in different presentation conditions: The evidence of memory and eye tracking experiments. *Psychological Exploration*, 33(4), 380-384. (in Chinese)
- Du, H.** (2012). The difference in susceptibility to negative emotion between different adult attachment styles. *Journal of Occupational Health and Damage*, 26(6), 339-342. (in Chinese)
- Li, J., Pang, B., Zhang, B., & **Du, H.** (2011). Self-regulation: From basic theories to applications. *Journal of Beijing Normal University*, 6, 5-13. (in Chinese)

MANUSCRIPT UNDER REVIEW AND IN PREPARATION

- Enders, C.K., **Du, H.**, & Keller (under review). Substantive model-compatible imputation for multilevel regression models with random coefficients, interaction effects, and other non-linear terms.
- Enders, C.K., Hayes, T., & **Du, H.** (under review). A comparison of multilevel imputation schemes for random coefficient models: Fully conditional specification and joint model imputation with random covariance matrices.
- Du, H.**, & Wang, L. (under review). Testing variance components in linear mixed modeling using permutation.
- Du, H.**, & Wang, L. (under review). Investigating reliabilities of intraindividual variability indicators with autocorrelated longitudinal data. *Results presented at the 2016 SMEP Graduate Student Conference in October.
- Du, H.**, & Zhang, Z. (manuscript drafted). Power analysis for t-tests. In Z. Zhang, & K.-H. Yuan, (Eds.), *Manual of power analysis*.

CONFERENCE PRESENTATIONS

- Enders, C., **Du, H.**, & Keller, B. (2017, October). *A fully Bayesian imputation*

procedure for random coefficient models (and other pesky product terms). Paper presented at the annual meeting of the Society for Multivariate Experimental Psychology, Minneapolis, MN.

Du, H., & Wang, L. (2017, July). *Investigating reliabilities of intraindividual variability indicators with autocorrelated longitudinal data* Talk presented at the 82th annual Meeting of the Psychometric Society, Zürich, Switzerland.

Du, H., & Wang, L. (October 2016). *Investigating reliabilities of intraindividual variability indicators with autocorrelated longitudinal data*. Poster presented at the 2016 SMEP Graduate Student Conference, Richmond, Virginia.

Nuttall, A. K., Zhang, Q., **Du, H.**, Wang, L., & Maxwell, S. E. (September 2016). *Bias in cross-sectional examinations of longitudinal mediation with a time-invariant Predictor*. Poster presented at the 3rd Biennial Developmental Methods Conference, Whitefish, Montana.

Du, H. (2016, July). *Power analysis for t-tests with non-normal data and unequal variances*. Talk presented at the 81th annual Meeting of the Psychometric Society, Asheville, North Carolina.

Du, H., Liu, F., & Wang, L. (2015, July). *A Bayesian "fill in" method for correcting for publication bias in meta-analysis*. Talk presented at the 80th Annual Meeting of the Psychometric Society, Beijing, China.

Du, H., & Wang, L. (2014, July). *Power analysis with uncertainty in effect sizes*. Talk presented at the 79th Annual Meeting of the Psychometric Society, Madison, Wisconsin.

Du, H., & Wang, L. (2013, May). *Number of dyads needed in dyadic data analysis*. Poster presented at the 25th Annual conference of the Association of Psychological Science, Washington DC.

SOFTWARE DEVELOPMENT

Du, H., & Wang, L. (2016). An R function for determining minimum numbers of assessments for obtaining reliable intraindividual variability indicators. Retrievable from <https://www3.nd.edu/~hdu1/R.codes/T.Reliability.R>

Du, H., & Zhang, Z. (2016). An R function for implementing a Monte Carlo based t-test power analysis. Retrievable from <https://www3.nd.edu/~hdu1/R.codes/wp.mc.t.R>

Du, H., Liu, F., & Wang, L. (2016). An R function for implementing a Bayesian "fill

in" method for correcting for publication bias. Retrievable from <https://www3.nd.edu/~hdu1/R.codes/BALM.R>

Du, H., & Wang, L. (2015). An R function for implementing a Bayesian power analysis procedure considering uncertainty in the effect size estimates from a meta-analysis. Retrievable from <https://www3.nd.edu/~hdu1/R.codes/pas.R>

TEACHING EXPERIENCE

Teaching Assistant & Lab Instructor, Quantitative Methods II

Lecture instructor: Dr. Scott Maxwell Spring 2016

Teaching Assistant & Lab Instructor, Quantitative Methods I

Lecture instructor: Dr. Roya Ghiaseddin Fall 2015

Instructor, A three-day R workshop for Psychologists

Beijing Normal University Summer 2015

Teaching Assistant, Longitudinal Data Analysis

Lecture instructor: Dr. Lijuan Wang Spring 2014

STATISTICAL CONSULTING EXPERIENCE

Conducted auto-regressive path analysis for the NICHD R01-HD046933 grant (*Children and political violence in Northern Ireland*). Supervisor: Dr. Edwards Cummings. 08/2014 to 12/2014.

Conducted multilevel mediation and moderation analysis for Aim 3 of the NIH 1R21MH097675-01A1 grant (*Discrimination and mental health in Latino families: Mediators and moderators*). Supervisors: Dr. Irene J. K. Park and Dr. Lijuan Wang. 03/2016 to 05/2017.

HONORS and AWARDS

Notebaert Professional Development award

University of Notre Dame 2016

Graduate Student Union Conference Presentation Grant

Feb 2018

University of Notre Dame

2015 – 2016

Society of Multivariate Experimental Psychology (SMEP) Travel Award

14th Annual SMEP Graduate Student Conference

2016

PROGRAMMING SKILLS

R, M-Plus, SPSS Syntax, and SAS