

Resource Summary Report

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MPlus

RRID:SCR_015578

Type: Tool

Proper Citation

MPlus (RRID:SCR_015578)

Resource Information

URL: <https://www.statmodel.com>

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Description: Statistical modeling program that provides a wide choice of models, estimators, and algorithms in a program that has graphical displays of data and analysis results. Mplus allows the analysis of both cross-sectional and longitudinal data, single-level and multilevel data, data that come from different populations with either observed or unobserved heterogeneity, and data that contain missing values. Analyses can be carried out for observed variables that are continuous, censored, binary, ordered categorical (ordinal), unordered categorical (nominal), counts, or combinations of these variable types. In addition, Mplus has extensive capabilities for Monte Carlo simulation studies, where data can be generated and analyzed according to any of the models included in the program. The Mplus modeling framework draws on the unifying theme of latent variables. The generality of the Mplus modeling framework comes from the unique use of both continuous and categorical latent variables. Continuous latent variables are used to represent factors corresponding to unobserved constructs, random effects corresponding to individual differences in development, random effects corresponding to variation in coefficients across groups in hierarchical data, frailties corresponding to unobserved heterogeneity in survival time, liabilities corresponding to genetic susceptibility to disease, and latent response variable values corresponding to missing data. Categorical latent variables are used to represent latent classes corresponding to homogeneous groups of individuals, latent trajectory classes corresponding to types of development in unobserved populations, mixture components corresponding to finite mixtures of unobserved populations, and latent response variable categories corresponding to missing data.

Synonyms: Mplus Version 8

Resource Type: software application, data processing software, data analysis software, simulation software, software resource

Keywords: statistical modeling software, data imaging software, software model, modeling estimator, modeling algorithms

Availability: Available for purchase, Free demo available, Student pricing is available

Resource Name: MPlus

Resource ID: SCR_015578

Record Creation Time: 20220129T080326+0000

Record Last Update: 20260804T043619+0000

Ratings and Alerts

No rating or validation information has been found for MPlus.

No alerts have been found for MPlus.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 958 mentions in open access literature.

Listed below are recent publications. The full list is available at [RRID](#).

Vietze J, et al. (2026) School Diversity Perspectives and Classmate Diversity Climate: Understanding High School Students' School Belonging, Well-Being, and Intercultural Contact. *Journal of community psychology*, 54(1), e70082.

Dol M, et al. (2026) Stability and change of psychopathology symptoms among youth with chronic physical illness: A latent transition analysis. *Clinical child psychology and psychiatry*, 31(1), 212.

Pedneault CI, et al. (2026) Attitude Toward Sexual Aggression Against Women (ASAW) Scale: Evidence of Discriminant and Incremental Validity. *Sexual abuse : a journal of research and treatment*, 38(1), 45.

Pedneault CI, et al. (2026) Attitude Toward Sexual Aggression Against Women (ASAW) Scale: Development and Structural Validity. *Sexual abuse : a journal of research and treatment*, 38(1), 23.

Bougoure M, et al. (2026) Measuring autistic burnout: A psychometric validation of the AASPIRE Autistic Burnout Measure in autistic adults. *Autism : the international journal of research and practice*, 30(1), 20.

Pelacho M, et al. (2025) Science as a commons: Motivations for continued participation in citizen science projects. *PloS one*, 20(6), e0325593.

Tang M, et al. (2025) The Association and Mediators Between Sleep Problems in Autistic Children and Parenting Stress. *Psychology research and behavior management*, 18, 917.

Wang B, et al. (2025) Dietary inflammatory index mediation lifestyle patterns and depression among women with osteopenia or osteoporosis. *Frontiers in nutrition*, 12, 1578954.

Premo J, et al. (2025) The Power of Peer Experiences: Shifts in Science Motivation and Impacts on Performance. *CBE life sciences education*, 24(3), ar39.

Seymour M, et al. (2025) Trajectories of psychological distress for Australian fathers parenting a child on the autism spectrum: Evidence from early childhood to adolescence. *Autism : the international journal of research and practice*, 29(1), 182.

Wang Y, et al. (2025) Subphenotypic classification of COVID-19 survivors and response to telerehabilitation: a latent class analysis. *Journal of rehabilitation medicine*, 57, jrm42726.

Hu Y, et al. (2025) Illusion of control and passion mediate the relationship between winning exposure and problem lottery gambling in a multigroup analysis. *Scientific reports*, 15(1), 20636.

Zhou J, et al. (2025) Patterns of social participation among older adults and their association with self-rated health: the mediating role of activities of daily living. *Aging clinical and experimental research*, 37(1), 221.

Matos VC, et al. (2025) Validation of the Perceived Barriers to Antiretroviral Therapy Adherence (PEDIA) Scale Among Gay, Bisexual, and Other Men Who Have Sex With Men and Transgender and Nonbinary Persons: Cross-Sectional Study. *JMIR public health and surveillance*, 11, e67005.

Kampe L, et al. (2025) How personality functioning relates to psychological distress and behavioral attitudes during the Covid-19 pandemic. *European archives of psychiatry and clinical neuroscience*, 275(1), 167.

Schertel Cassiano L, et al. (2025) Periodontitis is associated with impaired olfactory function: A??clinical study. *Journal of periodontal research*, 60(1), 55.

Calvete E, et al. (2025) Moderating and mediating mechanisms of the association between endogenous testosterone and aggression in youth: A study protocol. *PloS one*, 20(2), e0319426.

Stark Z, et al. (2025) Validation and Reliability of the Dyslexia Adult Checklist in Screening for Dyslexia. *Dyslexia (Chichester, England)*, 31(1), e1797.

Li J, et al. (2025) Construction and initial validations of the major decision-making self-efficacy scale (MDMSES) for Chinese high school students. *BMC psychology*, 13(1), 81.

Lund L, et al. (2025) Flexible and modular latent transition analysis-A tutorial using R. *PloS one*, 20(1), e0317617.