

**gllamm** — Generalized linear and latent mixed models[Description](#)[Remarks and examples](#)[References](#)[Also see](#)

## Description

GLLAMM stands for generalized linear latent and mixed models, and `gllamm` is a Stata command for fitting such models written by Sophia Rabe-Hesketh (University of California–Berkeley) as part of joint work with Anders Skrondal (Norwegian Institute of Public Health) and Andrew Pickles (King’s College London).

## Remarks and examples

[stata.com](#)

Generalized linear latent and mixed models are a class of multilevel latent variable models, where a latent variable is a factor or a random effect (intercept or coefficient), or a disturbance (residual). The `gllamm` command for fitting such models is not an official command of Stata; it has been independently developed by highly regarded authors and is itself highly regarded. You can learn more about `gllamm` by visiting <http://www.gllamm.org>.

`gllamm` is available from the Statistical Software Components (SSC) archive. To install, type

```
. ssc describe gllamm
```

```
. ssc install gllamm
```

If you later wish to uninstall `gllamm`, type `ado uninstall gllamm`.

## References

- Miranda, A., and S. Rabe-Hesketh. 2006. [Maximum likelihood estimation of endogenous switching and sample selection models for binary, ordinal, and count variables](#). *Stata Journal* 6: 285–308.
- Rabe-Hesketh, S., and B. S. Everitt. 2007. *A Handbook of Statistical Analyses Using Stata*. 4th ed. Boca Raton, FL: Chapman & Hall/CRC.
- Rabe-Hesketh, S., A. Pickles, and C. Taylor. 2000. [sg129: Generalized linear latent and mixed models](#). *Stata Technical Bulletin* 53: 47–57. Reprinted in *Stata Technical Bulletin Reprints*, vol. 9, pp. 293–307. College Station, TX: Stata Press.
- Rabe-Hesketh, S., and A. Skrondal. 2012. *Multilevel and Longitudinal Modeling Using Stata*. 3rd ed. College Station, TX: Stata Press.
- Rabe-Hesketh, S., A. Skrondal, and A. Pickles. 2002. [Reliable estimation of generalized linear mixed models using adaptive quadrature](#). *Stata Journal* 2: 1–21.
- . 2003. [Maximum likelihood estimation of generalized linear models with covariate measurement error](#). *Stata Journal* 3: 386–411.
- Skrondal, A., and S. Rabe-Hesketh. 2004. *Generalized Latent Variable Modeling: Multilevel, Longitudinal, and Structural Equation Models*. Boca Raton, FL: Chapman & Hall/CRC.
- Zheng, X., and S. Rabe-Hesketh. 2007. [Estimating parameters of dichotomous and ordinal item response models with gllamm](#). *Stata Journal* 7: 313–333.

The references above are restricted to works by the primary authors of `gllamm`. There are many other books and articles that use or discuss `gllamm`; see <http://www.gllamm.org/pub.html> for a list.

## Also see

[ME] **meglm** — Multilevel mixed-effects generalized linear model

[ME] **mixed** — Multilevel mixed-effects linear regression

[SEM] **intro 2** — Learning the language: Path diagrams and command language

[SEM] **intro 5** — Tour of models