

Resource Summary Report

Generated by [kravitz2](#) on Jul 30, 2026

Stan

RRID:SCR_018459

Type: Tool

Proper Citation

Stan (RRID:SCR_018459)

Resource Information

URL: <https://mc-stan.org/>

Proper Citation: Stan (RRID:SCR_018459)

Description: Probabilistic programming language for specifying statistical models. Defines log probability function over parameters conditioned on specified data and constants. Platform for statistical modeling and high performance statistical computation. Provides full Bayesian inference for posterior expectations including parameter estimation and posterior predictive inference by defining appropriate derived quantities of interest.

Resource Type: software application, simulation software, programming language, software resource

Defining Citation: [DOI:1509.07164](#), [DOI:10.18637/jss.v076.i01](#)

Keywords: Statistical model specification, statistical modeling, statistical computation, log probability function, parameter, data, constant, parameter estimation

Availability: Free, Available for download, Freely available

Resource Name: Stan

Resource ID: SCR_018459

License: BSD 3-clause "New" or "Revised" License

Record Creation Time: 20220129T080340+0000

Record Last Update: 20260729T044441+0000

Ratings and Alerts

No rating or validation information has been found for Stan.

No alerts have been found for Stan.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 173 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Bonnet J, et al. (2026) Histone modification cross-talk and protein complex diversification confer plasticity to Polycomb repression. *Genes & development*, 40(1-2), 43.

Smenderovac E, et al. (2025) Mixed Model Approaches Can Leverage Database Information to Improve the Estimation of Size-Adjusted Contaminant Concentrations in Fish Populations. *Environmental science & technology*, 59(10), 4797.

Friesema IH, et al. (2025) Systematic review and modelling of *Toxoplasma gondii* seroprevalence in humans, Europe, 2000 to 2021. *Euro surveillance : bulletin Europeen sur les maladies transmissibles = European communicable disease bulletin*, 30(34).

Basnak MA, et al. (2025) Multimodal cue integration and learning in a neural representation of head direction. *Nature neuroscience*, 28(8), 1729.

du Preez K, et al. (2025) Global burden of tuberculous meningitis in children aged 0-14 years in 2019: a mathematical modelling study. *The Lancet. Global health*, 13(1), e59.

Plate CR, et al. (2025) Computational characterization of metacognitive ability in subjective decision-making. *bioRxiv : the preprint server for biology*.

Seegelke C, et al. (2025) Effector selection precedes movement specification: evidence from repetition effects in motor planning. *Experimental brain research*, 243(3), 71.

Schnabel-Besson E, et al. (2025) Parental and child's psychosocial and financial burden living with an inherited metabolic disease identified by newborn screening. *Journal of inherited metabolic disease*, 48(1), e12784.

Tsujino S, et al. (2025) A non-spike nucleocapsid R204P mutation in SARS-CoV-2 Omicron XEC enhances inflammation and pathogenicity. *bioRxiv : the preprint server for biology*.

Mecklenburg J, et al. (2025) Erenumab for Chronic Cluster Headache: A Randomized Clinical Trial. *JAMA network open*, 8(6), e2516318.

Stocks D, et al. (2025) Mechanistic models of humoral kinetics following COVID-19 vaccination. *Journal of the Royal Society, Interface*, 22(222), 20240445.

Judd N, et al. (2025) No effect of additional education on long-term brain structure, a preregistered natural experiment in thousands of individuals. *eLife*, 13.

Fischer NM, et al. (2025) Two distinct host-specialized fungal species cause white-nose disease in bats. *Nature*, 642(8069), 1034.

Miyamoto S, et al. (2025) Serum anti-nucleocapsid antibody correlates of protection from SARS-CoV-2 re-infection regardless of symptoms or immune history. *Communications medicine*, 5(1), 172.

Hu B, et al. (2025) Rewired m6A methylation of promoter antisense RNAs in Alzheimer's disease regulates global gene transcription in the 3D nucleome. *bioRxiv : the preprint server for biology*.

Iwasaki M, et al. (2025) Estimating psychophysiological loads by repeated temperature steps on humans using a state-space model. *PloS one*, 20(11), e0335545.

Caprio MA, et al. (2025) A Bayesian approach to the analysis of dose-response data: estimating natural survivorship without Abbott's correction and inclusion of overdispersion estimates. *Journal of economic entomology*, 118(1), 369.

Zhang J, et al. (2025) A simple new method to determine leaf specific heat capacity. *Plant methods*, 21(1), 6.

Liu L, et al. (2025) Computational mechanisms underlying the impact of Pavlovian bias on instrumental learning in problematic social media users. *Journal of behavioral addictions*, 14(2), 903.

Charara S, et al. (2025) Morphological specializations of mosquito CO₂-sensing olfactory receptor neurons. *Proceedings of the National Academy of Sciences of the United States of America*, 122(43), e2514666122.