

Resource Summary Report

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

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: 20260814T043004+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 221 mentions in open access literature.

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

Woning N, et al. (2026) Revisiting the relationship between stomatal size and speed across species - a meta-analysis. *The New phytologist*, 249(5), 2338.

Yman V, et al. (2026) Investigating antibody cross-reactivity and transmission dynamics of alphaviruses and flaviviruses using a multiplex serological assay. *Nature communications*, 17(1).

Kugathasan L, et al. (2026) Mechanisms of SGLT inhibitor action and physiological mediators: systematic review and protocol for the MOSAIC collaborative meta-analysis. *BMJ open*, 16(2), e108946.

Malotaux V, et al. (2026) Associations of plasma biomarkers with age in the presenilin-1 E280A autosomal dominant Alzheimer's disease kindred. *The journal of prevention of Alzheimer's disease*, 13(6), 100578.

Schultz SA, et al. (2026) Plasma levels of an N-terminal tau fragment predict Alzheimer's and neurodegenerative disease biomarkers in autosomal dominant Alzheimer's disease. *Alzheimer's & dementia : the journal of the Alzheimer's Association*, 22(1), e71049.

Tay E, et al. (2026) Short-Term Safety and Adverse Event Risk Profiles for SARS-CoV-2 Booster Vaccine Doses in Australian Adults: A Survey Study. *The Medical journal of Australia*, 224(6), e70227.

Raj RS, et al. (2026) Life cycle assessment of MSW-to-biofuel conversion pathways: a comparative analysis. *Scientific reports*, 16(1).

McDonald TO, et al. (2026) BESTDR Enables Bayesian Quantification of Mechanism-Specific Drug Responses. *Cancer research*, 86(5), 1286.

Coan TG, et al. (2026) Large language model reveals an increase in climate contrarian speech in the United States Congress. *Communications sustainability*, 1(1), 37.

Thomadakis C, et al. (2026) Prevalence of Active HCV Infection in Spain in 2022 Using Multiparameter Evidence Synthesis. *Journal of viral hepatitis*, 33(4), e70159.

Ananthapadmanabhan V, et al. (2026) Targeted degradation of MDM2 overcomes feedback regulation of p53 signaling in Merkel cell carcinoma models. *The Journal of clinical investigation*, 136(13).

Blazey T, et al. (2026) Task-evoked deactivations: dissociation between BOLD fMRI and FDG. *bioRxiv : the preprint server for biology*.

Sridharan P, et al. (2026) A federated digital twin reveals cytomegalovirus reactivation impairs CAR-T cell therapy via IL-15-mediated cytokine competition in B-Cell lymphoma. *Frontiers in immunology*, 17, 1844927.

Kauppalä T, et al. (2026) Modelling and Predicting Population-Level Growth With Individual-Level Information. *Statistics in medicine*, 45(3-5), e70421.

Fager C, et al. (2026) Patient safety and predictors for subsequent healthcare contact after self-care referral from Swedish ambulance services: a retrospective cohort study. *BMC emergency medicine*, 26(1).

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

Su Z, et al. (2026) Topographic structure and function of locus coeruleus norepinephrine neurons. *bioRxiv : the preprint server for biology*.

May R, et al. (2026) Evaluating the quality of systematic reviews and meta-analyses published in behaviour analysis journals: An umbrella review. *PloS one*, 21(6), e0350142.

Pedersen ML, et al. (2026) Neural decision dynamics underlying reinforcement learning and working memory. *iScience*, 29(5), 115471.

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