

# A Complete Bibliography of Publications in *R News* and the *R Journal*

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## Title word cross-reference

4 [Ray01]. **4.0** [KMH20].  
5 [SFMR16].  
3 [MSC14]. 4 [MSC14]. *g* [Pra20]. *H*  
[HNL12, Pra20]. *K* [DDC07, Pra20, WS11].  
*O*(1) [O'N15].  $R \times C$  [LMK07]. *t*  
[AHvD09, AH10, Hof13, HBG01, Liu14,  
MUX20, Suc13].  
**-and-** [Pra20]. **-EGARCH** [Suc13].  
**-likelihood** [HNL12]. **-means** [WS11].  
**-Statistics** [Liu14]. **-table** [DDC07].  
**2.0.0** [Rip04]. **2.1.0** [Rip05a, Rip05b]. **2013**  
[Use13, Ulr13]. **2015** [Tve15]. **2016**  
[BAB<sup>+</sup>17, Ric16]. **2017** [BDH17, Ver17].  
**2018** [AdSQ18, BKJ<sup>+</sup>18, Dar18, Ric18].  
**2019** [BPC<sup>+</sup>20, CvDMvE19]. **22K** [Dem16].  
**Aalen** [ABS08, WBS06]. **abctools** [NP15].  
**Academic** [BSZWW14]. **Accelerated**  
[KF16, SP15]. **Acceleration** [BK19].  
**Accelerometer** [VP14]. **Access**  
[Car06, KRJ16, Wal16]. **Accessing** [Lig06].  
**Accountable** [GGHB18]. **Achievement**  
[LDM03]. **acids** [WV06]. **across**  
[COGRB16]. **ACSNMineR** [DBB<sup>+</sup>16].  
**Actual** [OOFdlFS<sup>+</sup>16]. **actuar** [GP08].  
**Adaptive** [AHvD09, Yoo18]. **Add** [OS18].  
**Add-on** [OS18]. **added** [BGK18].  
**Addendum** [GE14]. **addhaz** [dLN<sup>+</sup>18].

**Additive** [BTH<sup>+</sup>17, SS18]. **ade4** [CT06, CDT04, DDC07]. **adegraphics** [SJLD<sup>+</sup>17]. **Adjusted** [BFK<sup>+</sup>20]. **Adjusting** [GK17]. **AdMit** [AHvD09]. **Advanced** [Bür18, OS18]. **AFM** [BBTH17]. **afmToolkit** [BBTH17]. **Again** [LDB13]. **Against** [AG20]. **Age** [Nie15]. **Aggregated** [KBBH15]. **Agnostic** [GB19]. **Agriculture** [OC07]. **Aid** [KRJ16]. **Air** [RC12]. **Ake** [WSK16]. **algebras** [Han06b]. **Algorithm** [ALB<sup>+</sup>19, BACMAK17, KLK20, MMH09, Yoo18]. **Algorithms** [CS16, DY16, Kap14, MNT18, Pal18, BC18]. **Alignments** [DSN17]. **alineR** [DSN17]. **Allele** [MRS17]. **Allow** [HvWDM17]. **Alternatives** [AG20]. **ALTopt** [SP15]. **amap** [LJ06]. **Amazon** [Lee16]. **AMMI** [OC07]. **Among** [BKvB<sup>+</sup>17, IAA16]. **Amplification** [RBB<sup>+</sup>15]. **Analyse** [DSTT06]. **Analyses** [NP15, WFRM15]. **Analyzing** [BBD12, DGF08, HHB18, KE06, Lum03]. **Analysis** [AHL19, BT15, Bea16, BBTH17, BRS18, BFHM11, CCFVM17, CKL17, Chr18, Dal07, Dam09, Dja19, DYB02, ERK16, EZ20, FKW<sup>+</sup>18, FR06a, FKP19, FLO20, GGH18, God13, GKZK16, Gra14, Hol06, IPRT19, IW17, IMA16, JA18, JM17, JM16, KM08, KG06, KZDZ18, KBBH13, KBBH15, LHK17, LCT20, LB16, Luq07, MD18, MSN<sup>+</sup>16, NDWL20, Nie15, OC07, OSS<sup>+</sup>17a, PMZ20, PFMCF18, PBCV06, PS16, RD01, RBB<sup>+</sup>15, RBS13, RC12, SHW18, Sch01, Sch07, SH06, Smi03, SFdC18, SB19, Sto14, TDAP18, TD13, TVMZ10, Wie17, Mar02, Mur05b]. **Analyse** [GHM16, SJB20, Wri16]. **AnalysefMRI** [Mar02]. **Analyzing** [Bec16, CGG13, HWW12, KLN11, KCK<sup>+</sup>20, KB14, LH06, LZN<sup>+</sup>20, MKL20, OK07, PT07, PLH<sup>+</sup>10, Sha13, XY19]. **anchoredDistr** [SHR17]. **animation** [XC08]. **Animations** [XC08]. **Annealing** [XGSH13]. **Annotation** [Lig02]. **anomalies** [WAD<sup>+</sup>19]. **Anomaly** [GBB<sup>+</sup>17]. **anomalyDetection** [GBB<sup>+</sup>17]. **Anonymization** [LOM20]. **Antimicrobial** [ORVT15]. **apc** [Nie15]. **apComplex** [Sch06]. **API** [GdC11, Win17]. **Apple** [AZJH12]. **Application** [BND11, BS12, CKL17, JM16, MHR13, NW07, TVMZ10]. **Applications** [FR06b, NEB<sup>+</sup>20]. **Applied** [Jar07, MQ06]. **Applying** [ARA<sup>+</sup>14]. **Approach** [BRS18, CT06, PGCE17, VB15]. **Approaches** [OSS<sup>+</sup>17a]. **Approximate** [NP15, van14]. **Approximated** [NS17]. **Approximating** [LQ18]. **AQuadtree** [LOM20]. **Aquatic** [CGG13]. **arc** [HJJK19]. **ARCH** [Ott19]. **Archive** [VFB16]. **Archiving** [Lee14]. **ArCo** [FMMV18]. **Area** [BTH<sup>+</sup>17, MM15, Mor18, Wie17]. **Areal** [Hug14]. **Argument** [Lan17]. **ari** [KLM20]. **Arrays** [RH06]. **Artificial** [FMMV18]. **arulesCBA** [HJJK19]. **arulesViz** [Hah17]. **Aspects** [Fox09]. **Assembling** [GSBT<sup>+</sup>20]. **Assess** [DD18]. **Assessing** [BWM14, FLSNG19, KGZ14]. **Assessment** [ZC16]. **Associated** [WSK16]. **Association** [Hah17]. **Associative** [HJJK19]. **Assumptions** [KCK<sup>+</sup>20]. **Asymmetric** [Zag13]. **asymptTest** [CDLR09]. **atable** [Str19]. **Attribution** [LK13]. **auditor** [GB19]. **Augmented** [GBB<sup>+</sup>17]. **Augmenting** [Rob07]. **Authenticating** [BS12]. **Authors** [HMZ12]. **autoimage** [Fre17]. **Autologistic** [Hug14]. **Automated** [BBTH17, SFdC18, SB19, Jur12, KLM20]. **Automatic** [Oh14]. **Automation** [Lig02]. **Autonomous** [Gra14]. **Autoregressive** [ARS15, CLLG08, HWW12, JP18b, WC17]. **Average** [SY19]. **Averaging** [GDF18, RPV05]. **Avoid** [LF08]. **B** [GF19]. **Back** [LDB13]. **Backtests** [CEGK07]. **Bacterial** [TVMZ10]. **Balance** [OOFdIFS<sup>+</sup>16]. **Balances** [BKvB<sup>+</sup>17]. **Balloon** [JW06]. **Base** [Mur03, Sch03]. **Based** [BRS18, BS13, BFHM11, BACMAK17, BW15, CFF20, FR06b,

FKP19, IMA16, KH19, Liu14, PR17, SJLD<sup>+</sup>17, Sto14, Wai16, FLSNG19, FR06a, KM12, Smi03, SD20, WBS06, WCAR16]. **Basis** [PBMSN20, Yoo18]. **Basis-Adaptive** [Yoo18]. **Basket** [KCK<sup>+</sup>20]. **Bass** [Dug17]. **BayesBD** [SL17]. **BayesBinMix** [PR17]. **bayesdfa** [WAD<sup>+</sup>19]. **Bayesian** [AB17, AH10, Bür18, CLLG08, CG06, Fer10, GDF18, Jar07, KG06, LC15, LK15, MQ06, MBL18, NP15, Pap18, PBMSN20, RPV05, SHR17, SCLV20, SL17]. **BayesMallows** [SCLV20]. **BayesVarSel** [GDF18]. **beadarray** [DSTT06]. **beadarrayFilter** [FVK<sup>+</sup>13]. **BeadArrays** [DSTT06]. **Beads** [FVK<sup>+</sup>13]. **Behaviour** [Luq07]. **Beowulf** [CMM03]. **Best** [LGE<sup>+</sup>18]. **Beta** [LK15, Suc13]. **Beta-Skew-** [Suc13]. **betategarch** [Suc13]. **BETS** [SFdC18]. **between** [PMMEGM19]. **BFGS** [GF19]. **Bias** [MMN17]. **Biased** [LZN<sup>+</sup>20]. **Biclustering** [RPO<sup>+</sup>19]. **biclustermd** [RPO<sup>+</sup>19]. **Big** [Qia14, Wri16, ZB20]. **biglasso** [ZB20]. **Binary** [GMBL18, Koe06, LRMLLCS17, Mur07, PR17, SY19, Tou16]. **BINCOR** [PMMEGM19]. **binGroup** [BZST10]. **Binomial** [LQ18]. **bioassays** [Ran06]. **Bioconductor** [GC02, ACD<sup>+</sup>16, Car06, LH06, LC06, Smi03, The14a, The15a, The15b, Tea16, The16a, Tea17a, Tea17b, Tea18a, Tea18b, Tea19, Tea20]. **Biological** [DBB<sup>+</sup>16, Dur06, Wri16]. **biomaRt** [Dur06]. **bipartite** [DGF08]. **Birnbaum** [LHR06]. **Bivariate** [Liu14, SD20]. **Blind** [God13, GE14]. **BMA** [RPV05]. **bnclassify** [MBL18]. **BNSP** [Pap18]. **Bond** [Dja19]. **BondValuation** [Dja19]. **Book** [KLN11, Lia07, Hol06, Lei07]. **Boolean** [Dus18, LVV11]. **Boosting** [MHL<sup>+</sup>20]. **boot** [Can02]. **Bootstrap** [CGLN18]. **Boundaries** [SL17]. **Boxland** [SWCH16]. **Bradley** [Han17]. **Brain** [Chr18]. **brainR** [MSC14]. **breakDown** [SB18]. **brinton** [MMO20]. **brms** [Bür18]. **Brobdingnag** [Han07a]. **Broken** [Mug08]. **Broken-Line** [Mug08]. **BSGS** [LC15]. **bshazard** [RSR14]. **Budget** [JA18]. **BUGS** [LDB13, Tho06, TOLS06, Yan04]. **Builder** [PS16]. **Building** [YR03]. **Bundle** [Bra05]. **Burden** [dLN<sup>+</sup>18]. **Bureau** [Wal16].

**C** [Lan01a, Plu11]. **C/C** [Lan01a]. **CA** [KBBH15]. **CA-GALT** [KBBH15]. **Calculating** [DBB<sup>+</sup>16, HTM15]. **Calculations** [Bat04, DEVK19, GS16, MUX20]. **Can** [LF08]. **Capable** [KF16]. **car** [FFW13]. **carboxylic** [WV06]. **Carlo** [Jon18b]. **carx** [WC17]. **Case** [AE17, Jon18a, Mor20, SS16]. **Case-Cohort** [Jon18a]. **Case-Control** [SS16]. **Categorical** [HR07, KZDZ18, KB14, NR12]. **Causal** [BT15, CCFVL20]. **Causality** [Hma20]. **cchs** [Jon18a]. **cDNA** [Saw02]. **Censored** [GSHB14, MMZ16, SD20, WC17, AB17]. **Censoring** [LGSG18]. **Census** [Wal16]. **Centered** [Hug14]. **Central** [Liu14, Dal01a]. **Centralized** [SN18]. **Chain** [Pfe17]. **Chained** [SS18]. **Chains** [Sar13, Spe17]. **Change** [EZ20, Zei01, Poc06, WBS06]. **changeLOS** [WBS06]. **Changes** [Dal02, HZ13a, HZ13b, HZ14a, HZ14b, HZ15a, HZ15b, HZ16a, HZ16b, HLZ17a, HLZ17b, HLZ18a, HLZ18b, HLZ19a, HLZ19b, HLZ20a, HLZ20b, KMH20, Mur05a, Mur13, The13a, The13b, The14b, The14c, The15d, The15c, The16b, The16c, The17a, The17b, The18a, The18b]. **Channel** [KY15]. **charting** [Scr04]. **Charts** [GK17]. **Checking** [ZH02]. **checkmate** [Lan17]. **Checks** [Lan17]. **Chemistry** [FR06b]. **chi** [Dal01a]. **chi-squared** [Dal01a]. **Chinese** [LG13]. **Chronic** [dLN<sup>+</sup>18]. **ciuupi** [MK19]. **Ckmeans.1d.dp** [WS11]. **Class** [BB16, Lum04b, LMT14]. **Classes** [GP04, PB05, RH01, RKSC06]. **Classical** [CDLR09]. **Classification** [CJB<sup>+</sup>13, HJKK19, Jur12, LW02, LRMLLCS17, PAC<sup>+</sup>17, RdC18, SFMR16].

**Classifiers** [MBL18]. **cleanNLP** [Arn17]. **clere** [YJBC16]. **Climate** [AEB17, Poc06]. **Clinical** [Str19, GB06, PZK06]. **Clone** [BG20]. **Cloning** [S6l10]. **Cloud** [WCAR16]. **Cloud-based** [WCAR16]. **Club** [SP19]. **Cluster** [AHLL19, CMM03, HP19, LR01, PWD17, YLGT19]. **Cluster-correlated** [AHLL19]. **Clustered** [CA19, YLGT19]. **Clustering** [BW15, FGS19, FR06b, HQ16, JGB14, LJ06, PR17, SE19, SFMR16, SP19, Sze18, Szk16, VCQ15, WS11, YJBC16]. **clustering.sc.dp** [Szk16]. **clustMixType** [Sze18]. **ClustVarLV** [VCQ15]. **CMatching** [CA19]. **CMD** [LM05]. **CODA** [PBCV06]. **Code** [BG20, MKL20, RdV15]. **Coding** [Hol06, NtGP17, Mur05b]. **Coefficient** [LGSG18, dCSPM19]. **Cognitive** [Chr18]. **Cohort** [Jon18a, Nie15]. **Cohorts** [KM08]. **Coincidence** [BT15]. **Cointegrating** [JP18b]. **Collaborative** [KMKT20, TZ09, WCAR16]. **Collection** [Ger16]. **Collections** [Bar18]. **Collinear** [IAA17]. **Collinearity** [IAA16]. **Color** [VS15]. **Column** [BCD<sup>+</sup>17, GDM<sup>+</sup>17]. **Combinations** [WRR18]. **comf** [Sch16]. **Comfort** [Sch16]. **Commander** [Fox07]. **common** [WAD<sup>+</sup>19]. **Community** [RC12]. **Comparative** [TD13]. **Compare** [BBACK18]. **Comparing** [wCTKL20, COGRB16, Hoc19, Mur08]. **Comparison** [CS16, FRL<sup>+</sup>16]. **Comparisons** [BHW02, VS15]. **Compatible** [ALH18]. **Compendium** [Lun11]. **Competing** [KSLS20, AHLL19]. **Complex** [BT15, GHM16, Han15a, Sch06]. **CompLognormal** [NB13]. **Composed** [MRS17]. **Composite** [NB13, SH20]. **Comprehensive** [IAA17, UAA18]. **Computation** [Fer10, KF16, KY15, NP15, ZB20]. **Computation-Efficient** [ZB20]. **Computational** [CMM03, ERK16, SH20]. **Computations** [VDK15]. **compute** [BECDN17]. **Computer** [ORC<sup>+</sup>18]. **Computers** [AZJH12]. **Computing** [BF14, KPBS09, KH19, LR01, MK19, Roo16, WS13, Yu02]. **Concept** [Lun11]. **Conditional** [ARS15, BILL16, LP14, MMS16]. **Condor** [Xie05]. **condSURV** [MMS16]. **ConectaR** [CvDMvE19]. **Conference** [AdSQ18, BDH17, BSZWW14, BAB<sup>+</sup>17, BKJ<sup>+</sup>18, BPC<sup>+</sup>20, Use13, CvDMvE19, Dar18, GT14, LG13, LAL18, Ric16, Ric18, RBK18, SD13, Tve15, Ulr13, Ver17, FVS<sup>+</sup>20, LG13]. **Confidence** [CDLR09, Fay10, MK19, WS13]. **Configurational** [BT15]. **Connecting** [KLC19, MSLC15, WCAR16]. **Connections** [Rip01a]. **Consistency** [Dus18]. **Consistent** [Wic10]. **Consortium** [Plu15]. **Constrained** [ZZZ<sup>+</sup>19, YLGT19]. **Constraint** [Szk16]. **Constructing** [Gre17]. **Containerisation** [NEB<sup>+</sup>20]. **Containers** [BE17]. **Contamination** [ANRG18]. **Content** [BFHM11]. **Content-Based** [BFHM11]. **Contingency** [Dem16, KBBH13]. **Continuous** [FT19, HR07, LS20, LRMLLCS17, NR12, Pfe17, Sar13, WSK16]. **Continuous-Time** [Pfe17]. **Contrasts** [Arm13]. **Contribution** [dLN<sup>+</sup>18]. **Control** [Bet05, GK17, Saw02, SS16, Scr04]. **Controlling** [OL09]. **Conventions** [Båå12]. **Convergence** [ALB<sup>+</sup>19, LL09, Mar11, PBCV06, SP19]. **ConvergenceClubs** [SP19]. **ConvergenceConcepts** [LL09]. **Conversion** [Oh14]. **Converting** [Bat03]. **Convex** [KLK20, HY18]. **Coordinate** [Bro16, Sto14]. **Coordinate-Based** [Sto14]. **Coordinates** [Fre17]. **copas** [CRS09]. **Copula** [SD20]. **CopulaCenR** [SD20]. **coRanking** [KRM18]. **Correction** [MMN17]. **Correlated** [FT19, Tou16, AHLL19]. **Correlation** [LGSG18, PF16, PMMEGM19]. **Correspondence**

[KBBH15, LB16, Mur05b, Hol06]. **Cosmological** [FLO20]. **Costa** [Mor20]. **Costs** [EKN<sup>+</sup>08]. **Count** [FT19]. **Counterfactual** [CCFVM17, CCFVM17]. **Counterfactuals** [FMMV18]. **Counting** [NTE14]. **Country** [WG10]. **Coupon** [Dja19]. **Covariance** [PF16]. **Covariance/Correlation** [PF16]. **Covariate** [KM08, XY19, YLGT19]. **Covariate-constrained** [YLGT19]. **Covariates** [BHM<sup>+</sup>17, IW17, WC17]. **Cover** [EZ20]. **Cox** [KH19, LZN<sup>+</sup>20, NS17, OSS<sup>+</sup>17b]. **coxed** [KH19]. **CoxPhLb** [LZN<sup>+</sup>20]. **coxphMIC** [NS17]. **CRAN** [HZ13a, HZ13b, HZ14a, HZ14b, HZ15a, HZ15b, HZ16a, HZ16b, HLZ17a, HLZ17b, HLZ18a, HLZ18b, HLZ19a, HLZ19b, HLZ20a, HLZ20b, Zei05]. **crch** [MMZ16]. **Create** [NW07, Str19]. **Creating** [BND11, Law12, Rou05, SC20]. **Criteria** [NS17]. **crossdes** [Sai05]. **Crossing** [wCTKL20]. **crossover** [Sai05]. **Crowdsourced** [Lee16]. **crs** [NR12]. **CRTgeeDR** [PWD17]. **Cryptographic** [DB16, LVV11]. **CryptRndTest** [DB16]. **ctc** [LJ06]. **ctmcd** [Pfe17]. **Cubes** [Dus18]. **CUDA** [Fer10, KF16]. **cudaBayesreg** [Fer10]. **Curve** [GKZK16, PFMCF18, RBS13]. **Curves** [BBTH17, Ran06]. **Customizable** [Her11]. **Cut** [LRMLLCS17]. **Cut-off** [LRMLLCS17]. **cvcrand** [YLGT19]. **Cytometry** [LH06].

**D** [MSC14]. **D3** [KLC19]. **DAG** [Xie05]. **Daily** [AEB17]. **Darwin** [dL01]. **Darwin/X11** [dL01]. **Data** [AHLL19, AB17, AE17, AEB17, Arn17, AdIF18, BGBV20, BBD12, BT15, Bec16, BTH<sup>+</sup>17, Biv01, Bra02, Bro16, CI17, CA19, Cha20, Dam09, DBB<sup>+</sup>16, DSU18, DYB02, Dur06, EO03, Fay10, FT19, FKP19, FLO20, GGHB18, Gen02, GJP09, GSHB14, Han17, HR07, HGF14, Hol06, HWW12, Hug14, IPRT19, IW17, KSLS20, KG06, KZDZ18, LOM20, LMK07, LH06, LZN<sup>+</sup>20, Lee16, LGSG18, LDC20, LP14, Lum03, MMS16, MH17, MSC14, NtP12, NtGP17, OK07, ORVT15, OSS<sup>+</sup>17a, PR17, Peb18, Pen06, Pfe17, Poi11, PT07, PWD17, PKH17, Qia14, RC12, SB10, SHR17, SJB20, SJLD<sup>+</sup>17, Sie14, Sól10, Sou11, SC20, SHG14, SB19, SS16, SD20, Sze18, TVMZ10, VAD20, VP14, Vil17, VFB16, Wal16, Wil09, WCAR16, Wri16, XY19, ZB20, KLC19, Kom06, Mur05b, PB05, WAD<sup>+</sup>19]. **Data** [LHKB17]. **Database** [BB18, Roo16]. **Databases** [MRS17, Rip01c, WW06]. **Dataframes** [Oh14]. **Datasets** [CC15, CT06, GSBT<sup>+</sup>20, MW13, Mar02, HUC13]. **Dataverse** [Lee14]. **Date** [GP04, RH01]. **Day** [MZB<sup>+</sup>18]. **dclone** [Sól10]. **dCovTS** [PF16]. **DDF** [HM20]. **Dealing** [Gen02]. **Death** [AdIF18]. **debate** [Poc06]. **Debugging** [Bra03, ML12]. **DECIPHER** [Wri16]. **Decision** [Sch04]. **Deck** [ICK18]. **Decomposition** [KO09]. **Defensive** [Lan17]. **Delayed** [Bra02]. **Density** [EB18, RH06, SFMR16, Dal01a]. **DEoptim** [ABC<sup>+</sup>11]. **Dependence** [GW17, GSL19, Gre17]. **Dependencies** [BT15, Fal06]. **Dependency** [Oom13]. **Depletion** [DBB<sup>+</sup>16]. **Deploying** [BND11]. **Design** [ACD<sup>+</sup>16, SP15, VDK15, Sai05]. **Designing** [PZK06]. **Designs** [CCT15, DDK18, Fey16, FKP19, PZK06]. **Desk** [GP04, Lig02, Lig03a, Lig03b, LM05, Lig06, LF08, Sch03]. **deSolve** [Dug17]. **Detecting** [NtP12, SB10, YKT18]. **Detection** [ANRG18, BG20, GBB<sup>+</sup>17, HM20, Hma20, IAA16]. **Determination** [MRS17]. **Deuxièmes** [SD13]. **Developers** [Len15]. **Developing** [Kap14]. **Development** [KMKT20, TZ09]. **Deviation** [HvWDM17]. **dGAselID** [MH17]. **Diagnosis** [PBCV06]. **Diagnostic** [LRMLLCS17, ZH02]. **Diagnostics** [GB19, GMBL18, Saw02]. **Diagrams** [Mur09, Zha06]. **Did** [HMZ12]. **DIF** [HM20]. **Difference** [WS13]. **Differential**

[ABC<sup>+</sup>11, DHS19, MSN<sup>+</sup>16, SPS10].  
**Differentiation** [DD18]. **Diffusion** [Dug17, WV14]. **difNLR** [HM20]. **digitize** [Poi11]. **Dimension** [Hin17, LMK07, WS11, ZZZ<sup>+</sup>19].  
**Dimensional** [ANRG18, CHS16, EO03, IPRT19, IW17, MH17, MHL<sup>+</sup>20, YJBC16, HHB18, SC20].  
**Dimensionality** [KRM18]. **Dimensions** [HB19]. **dimRed** [KRM18]. **Directions** [Oom13]. **Disability** [dLN<sup>+</sup>18].  
**Disaggregation** [SS13]. **Discontinuity** [CCT15]. **Discovery** [GCG<sup>+</sup>16, OL09].  
**Discrete** [AE11, BBC<sup>+</sup>18, Fay10, HBH15, LS20, Pfe17, SKZS17, Spe17, WSK16].  
**Discrete-Continuous** [LS20].  
**Discrete-Time** [Pfe17, BBC<sup>+</sup>18].  
**discreteRV** [HBH15]. **Discriminant** [IMA16, PMZ20]. **Disease** [GSL19, Mor18, VAD20]. **Diseases** [dLN<sup>+</sup>18]. **Dispersion** [Law12].  
**Dissimilarities** [BW15]. **Distance** [BBTH17, HTM15, IMA16, MML16, PF16].  
**Distances** [DSN17]. **Distributed** [AZJH12, JP18b, Cc20]. **Distribution** [BF14, GS16, Han15a, Hof13, IBG18, LHR06, MsHCV18, Min03, Mor20, MHPO15, WV14, WM10, Dal01a]. **Distribution-free** [MsHCV18]. **Distributions** [Abe15, AHvD09, AE11, FT19, GP08, LDB13, NB13, Pra20, RKSC06, SH20, Ste02].  
**diverse** [GHM16]. **Diversity** [GHM16].  
**Diving** [Luq07]. **division** [Han06b]. **DNA** [DYB02, RBB<sup>+</sup>15, TVMZ10]. **Do** [Fox05].  
**doBy** [Høj06]. **Docker** [BE17].  
**DOCSTRIP** [Lun11]. **Document** [Kuh06].  
**Documents** [TKM15]. **doex** [Cc20].  
**Dominance** [BRS18]. **Don't** [Mur12a].  
**Dose** [OSS<sup>+</sup>17a, PLH<sup>+</sup>10, Ran06].  
**Dose-Response** [OSS<sup>+</sup>17a, PLH<sup>+</sup>10, Ran06]. **Dot** [MZ18].  
**Dot-Pipe** [MZ18]. **Doubly** [PWD17].  
**Downside** [ABC18]. **DPpackage** [Jar07].  
**dr** [Yoo18]. **dr-package** [Yoo18]. **dr4pl** [ALB<sup>+</sup>19]. **drat** [AE17]. **Draw** [Mur12a].  
**Drawing** [Her11, Mur09, Zha06]. **dtwclust** [SE19]. **Dual** [AMRdMR15]. **Duration** [BHM<sup>+</sup>17, KH19]. **Duration-Based** [KH19]. **Dynamic** [Boe13, JP18b, OHC19, PGCE17, Szk16, WS11, dVdMF19, KLC19].  
**Dynamics** [MO17]. **dynr** [OHC19].  
**e-Rum2020** [FVS<sup>+</sup>20]. **Early** [Saw02].  
**Easier** [KPBS09, Ray01]. **Easy** [ORC<sup>+</sup>18].  
**easyROC** [GKZK16]. **Ecological** [COGRB16, DGF08, LMK07, Pet03].  
**Economic** [dVdMF19]. **Ecosystem** [CGG13]. **EcoTroph** [CGG13]. **EDA** [MMO20]. **Editorial** [Biv17a, Biv17b, Grü15a, Grü15b, Kan19, Kan20a, Kan20b, Law16a, Law16b, Mat19, Sar14a, Sar14b, Ver18a, Ver18b, Wic13a, Wic13b].  
**Educational** [MD18]. **Effect** [BGBV20, BWM14, EHD07, NtGP17, SY19].  
**Effects** [BS13, CCFVL20, FO16, GW17, NtP12, PGCE17]. **Efficient** [ZB20, Dus18].  
**EGARCH** [Suc13]. **eiCompare** [COGRB16]. **eiPack** [LMK07]. **Electrical** [Han06a]. **Electronic** [KLN11]. **Embedded** [BS12]. **EMD** [KO09]. **Emphasis** [VP14].  
**Empirical** [KO09, dCSPM19]. **EMSaov** [CKL17]. **Emulation** [GPB19, ORC<sup>+</sup>18].  
**Encourage** [NDWL20]. **Energy** [OOFdIFS<sup>+</sup>16]. **Enforce** [MD18].  
**Enforcing** [MVT19]. **Engineer** [DSU18].  
**Engineering** [SORS06]. **Enrichment** [DBB<sup>+</sup>16]. **Entry** [JCWL19]. **Environment** [DEVK19, GKZK16, RBB<sup>+</sup>15, WFRM15].  
**Environmental** [Bec16]. **EpiILM** [VAD20].  
**Epistemic** [BC18]. **Equality** [AG20, Cc20].  
**Equation** [JP18b, MSN<sup>+</sup>16, VZ19].  
**Equations** [DHS19, PWD17, SS18, SPS10, Yan02].  
**Equity** [LK13, KE06]. **Equivalence** [Liu14].  
**ercv** [dCSPM19]. **Error** [BTH<sup>+</sup>17, GK17, HvWDM17, MUX20, Min03, XY19]. **Errors** [SB10, UPA18]. **eRum** [Dar18]. **Escape** [SWCH16]. **Essential** [FLSNG19].

**Estimability** [Len15]. **Estimate** [Adä19, FMMV18, LRMLLCS17, OOFdIFS<sup>+</sup>16, WC17]. **Estimates** [BGBV20, COGRB16]. **Estimating** [LDM03, Pfe17, PGCE17, PMMEGM19, PWD17, WdM13, Yan02, ÇT18]. **Estimation** [AMRdMR15, AH10, BBC<sup>+</sup>18, BTH<sup>+</sup>17, BS13, CLLG08, GK17, GS14, Hin17, IAA17, KLK20, KM12, LGSG18, LS20, MMS16, MM15, Mor18, NS17, OL09, Sch06, SFMR16, SY19, Suc13, War06, RFGC20]. **Estimations** [PWD17, WSK16]. **Estimator** [ABS08, WBS06]. **Estuaries** [Bec16]. **European** [BAB<sup>+</sup>17]. **Eurostat** [LHKB17]. **eUtils** [Win17]. **Evaluation** [ABC18, Han15b, MUX20, SG16, VB15]. **Evapotranspiration** [OOFdIFS<sup>+</sup>16]. **evd** [Ste02]. **Even** [Ray01]. **Event** [OSS<sup>+</sup>17b, FVS<sup>+</sup>20]. **everyday** [GB06]. **Evolution** [ABC<sup>+</sup>11, Scr17, VD13]. **Evolutionary** [GCG<sup>+</sup>16]. **Exact** [Fay10, Hot01, Liu14, WS13, Dus18]. **ExactCIDiff** [WS13]. **Example** [LM05]. **Excel** [BND11]. **Exchangeability** [KCK<sup>+</sup>20]. **Existing** [RdV15]. **Exogenous** [WC17]. **Expected** [CKL17, MUX20]. **Experimental** [SP15]. **Experiments** [OL09, PLH<sup>+</sup>10, RBB<sup>+</sup>15, WFRM15, War06]. **Expert** [GJP09, GJP09]. **Explanations** [SB18]. **exploration** [Mar02]. **Exploratory** [SB19]. **Explore** [Zab14, KLC19]. **Exploring** [FO16, ZG04]. **Exposure** [AE17]. **expressions** [Hoc19]. **Extending** [Fox07]. **Extensible** [MZ18, WFRM15]. **Extensions** [Scr17]. **External** [FLSNG19]. **Externally** [BF14]. **Extracting** [Poi11]. **Extreme** [LS20, Ste02]. **extremes** [WAD<sup>+</sup>19].

**FA** [FLSNG19]. **FA-based** [FLSNG19]. **Facets** [Cha09]. **Facilities** [Lig03a]. **FactoMineR** [KBBH13, KBBH15]. **Factor** [BFK<sup>+</sup>20, FO16, KBBH13, PS16, dVdMF19, HHB18]. **Factor-Adjusted** [BFK<sup>+</sup>20]. **Factorial** [Fey16]. **Factorization** [KF16]. **factorplot** [Arm13]. **Factors** [Gau13, Gro03]. **Failure** [AWB17, MMS16]. **Fake** [LP14]. **False** [OL09]. **Families** [MRS17]. **fanplot** [Abe15]. **Farewell** [HGF14]. **FarmTest** [BFK<sup>+</sup>20]. **Fast** [KSLS20, Lan17, MHR13, Dus18]. **fastcmprsk** [KSLS20]. **Faster** [LF08]. **FastICA** [MNT18]. **fclust** [FGS19]. **Feature** [DSN17, PMM<sup>+</sup>19]. **Feature-Weighted** [DSN17]. **Features** [MH17, Peb18, Rip05a]. **FHDI** [ICK18]. **fICA** [MNT18]. **Fields** [BILL16, Sar13, Sch01]. **FieldSim** [BILL16]. **filehash** [Pen06]. **Files** [Mur02a, Mur07]. **Filter** [FVK<sup>+</sup>13, VFB16]. **Finance** [Ulr13]. **Financial** [Alp07, Zag13]. **Finding** [LGE<sup>+</sup>18]. **Fingerprint** [TVMZ10]. **Fingerprinting** [SMBTS19]. **Finite** [GL07, SFMR16, VDK15]. **Fionn** [Hol06]. **First** [Wai16]. **Fit** [AE11, DHS19, LLM16, Mug08]. **Fitting** [ARS15, Bat05, BGK18, CRS09, EHD07, Gau13, HNL12, Hug14, Mar11, Pap18, Ran06, RSA10, ZB20, dCSPM19, HB19]. **fitzRoy** [NDWL20]. **Fixed** [BK19, Dja19, HvWDM17, PGCE17]. **flan** [MDDY17]. **Flexibility** [BKvB<sup>+</sup>17]. **Flexible** [Han07b, QGC19, RSR14, VP14]. **FlexMix** [GL07]. **FLIM** [HGF14]. **Flow** [LH06, VFB16]. **fMRI** [Mar02, Sto14, PT07]. **Fonts** [Mur04, MR06, Qiu15]. **Force** [BBTH17]. **Force-Distance** [BBTH17]. **Forecast** [WRR18]. **ForecastComb** [WRR18]. **Forecasting** [BACMÁK17, DY16, FRG<sup>+</sup>11, MFCR19, Mey02, Suc13, WAD<sup>+</sup>19]. **Foreign** [Adl12, Mur02a]. **Forests** [GPTM15, IK07]. **Forge** [TZ09]. **Format** [Kuh06]. **FORTTRAN** [Lan01a]. **Forwards** [BCD<sup>+</sup>17, Tur20]. **Foundation** [Hor13a, Hor13b, Hor14, Hot16, Hot17a, Hot17b, Hot18a, Hot18b, Hot19a, Hot19b,

Hot20a, Hot20b, MH14, MH15, Plu15].  
**Fourier** [BECDN17]. **fourierin** [BECDN17].  
**Fractional** [BILL16, ICK18, MO20, Ben05].  
**Frailty** [HNL12]. **frailtyHL** [HNL12].  
**Frame** [AMRdMR15]. **Frames2**  
[AMRdMR15]. **Framework**  
[BWM14, SH20]. **free** [MsHCV18]. **Friendly**  
[NW07, Sze18]. **Frontiers** [Roo16]. **FSL**  
[MSLC15]. **fslr** [MSLC15]. **ftsa** [Sha13].  
**Function** [Han15b, MMS16, RSR14, CM06].  
**Functional** [Sha11, Sha13]. **Functions**  
[Adä19, Boe13, Bos17, wCTKL20, CE18,  
Dal07, Han17, Jon18b, LVV11, LLM16,  
OOFdIFS<sup>+</sup>16, PBMSN20, VP14, WV14,  
Han06c]. **Furniture** [BB17a]. **Fusing**  
[Yan04]. **futureheatwaves** [AEB17]. **Fuzzy**  
[FGS19, GCG<sup>+</sup>16]. **FWDselect**  
[SVMMRP16].

**GA** [Scr17]. **Gains** [CMM03]. **GALT**  
[KBBH15]. **Game** [BC18]. **Gamma** [CI17].  
**Gamma-Poisson** [CI17]. **GAMs** [Woo01].  
**GARCH** [AH10, Ott19]. **GAS** [ABC18].  
**Gauss** [Han15b, HBG01]. **Gaussian**  
[BILL16, GS16, GPB19, Han15a, SFMR16].  
**GEE** [MHR13]. **geopack** [Yan02]. **Gender**  
[Wai16]. **genderizeR** [Wai16]. **GeneNet**  
[SORS06]. **General**  
[Min03, Suc20, WFRM15].  
**General-Purpose** [WFRM15].  
**General-to-Specific** [Suc20]. **Generalised**  
[CR02, KBBH15, Pra20]. **Generalized**  
[BKvB<sup>+</sup>17, BZ10, Han17, HM20, Hug14,  
LDC20, LRMLLCS17, Mar11, MHPO15,  
PWD17, RSA10, SS18, TF07, WB10, Woo01,  
WR18, XGSH13, Yan02]. **Generating**  
[Guh06, TKM15]. **Generation**  
[Dem16, LDC20]. **Genes** [SKI06]. **Genetic**  
[BWM14, SORS06]. **genetics** [War03].  
**Genomic** [Gen02]. **GenSA** [XGSH13].  
**Geocomputing** [MSB17]. **Geodata**  
[Kol19]. **Geographic** [Bro16, Wal16].  
**Geometric** [DEVK19]. **geoR** [RD01].  
**geoRglm** [CR02]. **Geospatial** [EB18].

**Geostatistical** [RD01, SHR17]. **Get**  
[Wic11]. **Getting** [Lig03a]. **ggfortify**  
[THL16]. **ggmap** [KW13]. **ggplot2**  
[ALH18, KW13, MMO20, TBH17]. **Giving**  
[Hyn11]. **gk** [Pra20]. **gldrm** [WR18]. **glm2**  
[Mar11]. **glmmBUGS** [BZ10]. **glmmTMB**  
[BKvB<sup>+</sup>17]. **glmperm** [WB10]. **GLMs**  
[Arm13]. **Global** [Sou11, XGSH13]. **GMDH**  
[DY16]. **GMDH-Type** [DY16]. **gnm**  
[TF07]. **Goodness** [AE11].  
**Goodness-of-Fit** [AE11]. **Google** [GdC11].  
**GPU** [KF16]. **GPU-Accelerated** [KF16].  
**Gradient** [MHL<sup>+</sup>20, Nas20]. **Grapher**  
[Her11]. **Graphical**  
[BVB13, MMO20, SM12, TKM15].  
**Graphics**  
[HUC13, Mur02b, Mur03, Mur04, Mur05a,  
Mur11, ML12, Qiu15, Sch03, KLC19, MR06].  
**Graphs**  
[Fal06, Her11, Law12, LC06, SM12, BCB06].  
**graphviz** [Zha06]. **grid**  
[Mur03, Mur05a, Mur02b, ML12, Mur13].  
**gridGraphics** [Mur15]. **gridSVG** [MP14].  
**Groovy** [GD18]. **Group**  
[BZST10, LC15, Cc20, PZK06]. **Groups**  
[AZJH12, DDK18, LLM16, TDAP18].  
**GroupSeq** [PZK06]. **GrpString** [TDAP18].  
**gset** [Liu14]. **gsl** [Han06c]. **gstat** [GPH16].  
**GsymPoint** [LRMLLCS17]. **GUI**  
[Her11, Wil09]. **GUIProfiler** [RdV15].  
**gWidgets** [Ver07].

**Handling** [KRJ16]. **Haplotype** [MRS17].  
**Hardware** [KF16]. **Hazard** [RSR14].  
**Hazards**  
[wCTKL20, KH19, MHL<sup>+</sup>20, NS17].  
**HCmodelSets** [HB19]. **hdm** [CHS16].  
**Headers** [CE18]. **HEALPix** [FLO20].  
**Health** [Dam09]. **Heat** [Fre17]. **Help**  
[GDRF09, GP04, Lig02, Lig03a, Lig03b,  
LM05, Lig06, LF08, MU09, Sch03]. **Helping**  
[PKH17]. **Hermite** [MHPO15].  
**Heterogeneous** [AZJH12].  
**Heteroscedastic** [MMZ16, Vil17].



**hexView** [Mur07]. **hglm** [ARS15, RSA10]. **HHG** [BHH18]. **hiddenf** [FO16]. **Hierarchical** [RSA10]. **High** [AKU17, CHS16, HHB18, HB19, IPRT19, IW17, MH17, MHL<sup>+</sup>20, MSC14, RH06, YJBC16]. **High-Density** [RH06]. **High-Dimensional** [CHS16, IW17, MHL<sup>+</sup>20, YJBC16, HHB18]. **High-Performance** [AKU17]. **Higher** [Bra05, LMK07]. **Higher-Dimension** [LMK07]. **Hilbert** [KO09]. **Hint** [WW07]. **hoa** [Bra05]. **hospital** [WBS06]. **Hosting** [AE17]. **Hot** [ICK18]. **HRM** [HHB18]. **Huge** [LJ06]. **Human** [Zab14]. **Hurricane** [AE17]. **hwriter** [PH09]. **Hybrid** [PBMSN20, Scr17]. **hyper2** [Han17]. **hypergeo** [Han15b]. **Hypergeometric** [Han15b]. **Hypothesis** [FFW13, Liu14, Vil17].

**I/O** [AKU17]. **ICSOutlier** [ANRG18]. **Identical** [LQ18, Mur08]. **Identification** [HP19]. **Identifying** [BT15, SKI06, VZ19, WAD<sup>+</sup>19]. **ider** [Hin17]. **idmTPreg** [AdlF18]. **IDSpatialStats** [GSL19]. **II** [DDC07, Lei03]. **III** [LAL18]. **Illness** [AdlF18]. **Illumina** [DSTT06]. **Image** [FR06a, SH06, SL17]. **Images** [Mur11, MSC14]. **Imbalance** [LMT14]. **Implementation** [CI17, GBB<sup>+</sup>17, KSLS20, MHR13]. **Implementing** [Dug17, Lun11, O'N15]. **Importance** [GB20]. **Improved** [MNT18, Oom13, PHL02]. **Improvements** [TLP07]. **Improving** [Arm13]. **Impulse** [Adä19]. **Imputation** [BACK18, HW20, ICK18, MRS17, MBB17, QGC19, SS18]. **ImputeRobust** [SS18]. **imputeTestbench** [BACK18]. **imputeTS** [MBB17]. **Including** [FT19]. **Increments** [HGF14]. **Independence** [BHH18, MshCV18]. **Independent** [AHL19, DDK18, FRL<sup>+</sup>16, LQ18, Cc20]. **Indicator** [Suc20]. **Individual** [BGBV20, VAD20]. **Individual-Level** [BGBV20, VAD20]. **Indoor** [SMBTS19]. **Inequality** [BRS18]. **Infectious** [GSL19, VAD20]. **Inference** [Bra05, CCT15, CGLN18, COGRB16, Ger16, Jar07, LK15, MQ06, MDDY17, SL17, WB10]. **Inferences** [DSH07, LMK07]. **Inflated** [LK15, BKvB<sup>+</sup>17]. **Inflation** [Gro03]. **influence.ME** [NtP12]. **Influential** [NtP12]. **Information** [FLSNG19, Guh06, KM08, MK19, MUX20, NS17, Zag13]. **informed** [CT18]. **InfoTrad** [CT18]. **Innovations** [AH10]. **Installing** [Rip01b]. **Instance** [CCY<sup>+</sup>17]. **Instructor** [KLM20]. **Insurance** [BDH17, GT14]. **integrals** [BECDN17]. **Integrated** [BVB13]. **Integrating** [CT06, Dur06, MSB17, Mur03]. **Integration** [CC19, GD18]. **Intel** [YR03]. **Interacting** [Pen06]. **Interaction** [Fey16, FO16]. **Interactions** [LGE<sup>+</sup>18]. **Interactive** [GKZK16, Hah17, JM16, MSC14]. **Interactively** [ZG04]. **Interdependent** [VZ19]. **Interesting** [SKI06]. **Interface** [Adl12, CE18, THL16]. **Interfaces** [NW07]. **Internationalization** [Rip05a]. **Interpolation** [GPH16]. **Interval** [AB17, GSHB14, LGSG18, You16]. **Interval-Censored** [GSHB14, AB17]. **Intervals** [CDLR09, Fay10, MK19, WS13]. **Intrinsic** [Hin17]. **Introducing** [DGF08, Han06b, Han07a, Han05, Han06c]. **Introduction** [BE17, BACMÁK17, CGG13, Fei08, GMBL18, GB20, LK06, RdV15, SG16, Sch03, Ver07, WLLS08]. **Introductory** [Lia07, Ver05]. **Inventory** [SN18]. **Inventorymodel** [SN18]. **Inverse** [GS16, GS14, SS16]. **Inversion** [SHR17]. **Investigate** [LL09]. **Investigate-Variousof-Convergence** [LL09]. **investr** [GS14]. **iotools** [AKU17]. **ipft** [SMBTS19]. **ipred** [PHL02]. **ipwErrorY** [SY19]. **IRT** [BB16, BKPW20]. **Islands** [Scr17]. **Isochrones** [VD13]. **IsoGene** [PLH<sup>+</sup>10].

**IsoGeneGUI** [OSS<sup>+</sup>17a]. **Item** [PS16, KLWD18].

**Java** [Hol06, GD18, Mur05b]. **JavaScript** [GD18]. **jobs** [Xie05]. **Johansen** [WBS06]. **John** [Lia07]. **Joint** [QGC19]. **jomo** [QGC19]. **Journalism** [Alp07]. **JRuby** [GD18]. **jsr223** [GD18]. **Jython** [GD18].

**k-sample** [BHH18]. **Kernel** [HR07, SJO<sup>+</sup>20, WSK16]. **Key** [AL16]. **keyplayer** [AL16]. **KNN** [MFCR19]. **Kotlin** [GD18]. **KSPM** [SJO<sup>+</sup>20]. **Kuhn** [LS20].

**L** [GF19]. **L-BFGS-B** [GF19]. **Label** [MLG<sup>+</sup>17, RdC18]. **Lag** [JP18b, Sar13]. **Land** [EZ20, OOFdIFS<sup>+</sup>16]. **Landscape** [SB19]. **Language** [Arn17, GKZK16, Tho06, YKT18]. **Languages** [GD18]. **Large** [BHH18, CDLR09, DBB<sup>+</sup>16, Han07a, Dal01a]. **Large-scale** [DBB<sup>+</sup>16]. **Lasso** [CCY<sup>+</sup>17, ZB20]. **Latent** [BB16, JA18, VCQ15]. **LatinR** [AdSQ18]. **Lattice** [Sar02, SJLD<sup>+</sup>17]. **Lattice-Based** [SJLD<sup>+</sup>17]. **Laying** [GCGG04]. **Lazy** [Rip04]. **Iba** [JA18]. **LeArEst** [BTH<sup>+</sup>17]. **Learning** [CJB<sup>+</sup>13, LMT14, MBL18, PBMSN20, Qia14]. **Least** [Bat04, CFF20]. **Left** [LGSG18]. **Length** [BTH<sup>+</sup>17, LZN<sup>+</sup>20, WBS06]. **Let** [HUC13]. **Level** [BGBV20, VAD20, QGC19]. **Levels** [Gau13]. **Lexical** [KBBH15]. **lfe** [Gau13]. **Library** [Adl12]. **Life** [SP15]. **Likelihood** [Ago01, Bra05, Han17, LGSG18, MMN17, HNL12]. **Limit** [KLN11]. **Line** [Mug08]. **Linear** [Bat05, BKvB<sup>+</sup>17, BZ10, CR02, FFW13, GDF18, Gau13, HGF14, Hug14, IAA17, JP18a, KM12, Kos08, Mar11, MO20, MKRPC19, OHC19, PMZ20, Rah18, RSA10, WB10, WR18, YJBC16, Zei01, WV06]. **Lines** [Mur04]. **Linguistic** [DSN17]. **Linkage** [MVT19]. **Linking** [BB18]. **Links** [Koe06, VZ19]. **Linux** [YR03]. **Lists** [BFHM11]. **Literate** [Rou05]. **Liu** [IAA17]. **liureg** [IAA17]. **live** [SB18]. **lmeSplines** [Bal03]. **lmtree** [UAA18]. **Loading** [Rip04]. **Local** [Adä19]. **Locating** [AL16]. **Location** [AG20]. **Locations** [Wie17]. **Log** [GBB<sup>+</sup>17]. **Logistic** [ALB<sup>+</sup>19, CCY<sup>+</sup>17, HM20, Jur12]. **Lognormal** [NB13]. **Logs** [KRJ16]. **Long** [GW17, Xie05]. **Long-Term** [GW17]. **Longitudinal** [IW17, LDM03, XY19]. **Loop** [LF08]. **Loss** [GP08, KLWD18]. **Low** [ANRG18, Jur12, SC20]. **Low-Dimensional** [ANRG18, SC20]. **Low-memory** [Jur12]. **LP** [Pal18]. **lpirfs** [Adä19]. **lspartition** [CFF20]. **LyX** [Gor08].

**Mac** [dL01]. **Machine** [Qia14]. **Machines** [FKW<sup>+</sup>18, Mey01]. **Macintosh** [Iac01]. **Macros** [Lum01]. **made4** [CT06]. **magic** [Han05]. **Mailing** [BFHM11]. **Maintaining** [Rou05]. **Maintenance** [Gil04]. **Make** [LM05, LF08]. **Making** [Ray01, TOLS06, BCB06]. **Mallows** [SCLV20]. **Manage** [VD13]. **Management** [LMK07, Lig03b, Rip05b, Tie01, Tie03]. **Managing** [GDGJC20]. **Manipulation** [HBH15]. **Manly** [ZM17]. **ManlyMix** [ZM17]. **MANOVA.RM** [FKP19]. **Manual** [SC20]. **Manuals** [Lig03a]. **Many** [Bra03, Gau13]. **MapGAM** [BGBV20]. **mapmisc** [Bro16]. **Mapping** [BGBV20, EO03, RH06, Sou11, WW06, WG10]. **Maps** [Bro16, DBB<sup>+</sup>16, Fre17]. **Marginal** [Tou16]. **Marked** [HTM15]. **Market** [Wie17]. **Markets** [Zag13]. **Markov** [BBC<sup>+</sup>18, Pfe17, SM12, Sar13, Spe17]. **MARSS** [HWW12]. **Matches** [MVT19]. **Matching** [CA19, Fay10, Han07b, JCWL19, van14]. **Mathematical** [Lig02]. **mathematics** [Han05]. **Matrix** [BR20, KF16, MUX20, MHR13]. **maxent** [Jur12]. **Maximally** [HL02]. **Maximum**

[MMN17]. **MCI** [Wie17]. **mclust** [SFMR16]. **MCMC** [BZ10, PBCV06]. **MCMCpack** [MQ06]. **MCSIMEX** [LK06]. **mctest** [IAA16]. **MDFS** [PMM<sup>+</sup>19]. **MDplot** [MO17]. **Mean** [CKL17]. **Means** [DSH07, Cc20, WS11]. **Measured** [BTH<sup>+</sup>17]. **Measurement** [PMH16, UPA18, XY19]. **Measures** [Chr18, FKP19, HHB18, MML16]. **Measuring** [WG10, Zag13]. **Mechanical** [Lee16]. **Medicine** [RBK18]. **Meeting** [BAB<sup>+</sup>17, BSZWW14]. **Melting** [RBS13]. **Membership** [Sch06]. **Memory** [Tie01, ZB20, Jur12]. **Memory-** [ZB20]. **MessagePack** [CE18]. **Meta** [Bea16, Sch07, Sto14, Sch07]. **Meta-Analysis** [Bea16, Sch07, Sto14]. **Meta-Regression** [Bea16]. **Metadata** [Car06]. **metaplus** [Bea16]. **Metapopulation** [Dug17]. **Method** [GF19, KSLS20, VB15, Dus18]. **Methodology** [Zab14]. **Methods** [BBACK18, Can02, CGLN18, CDT04, Chr18, DDC07, HR07, Jon18b, Mey02, RdV15, Suc20, Wai16, PB05]. **Metrics** [CHS16, HTM15]. **mfp** [Ben05]. **mgcv** [Woo01]. **MGLM** [KZDZ18]. **micompr** [FRL<sup>+</sup>16]. **Microarray** [BWM14, DYB02, FR06a, OL09, OSS<sup>+</sup>17a, PLH<sup>+</sup>10, Smi03, War06]. **Microarrays** [Saw02]. **Microscopy** [SH06]. **Microsoft** [YR03]. **Midrange** [BF14]. **milr** [CCY<sup>+</sup>17]. **MINimal** [OGP17]. **minimization** [Dus18]. **Mining** [BVB13, CI17, Fei08, ORVT15, Wil09]. **minval** [OGP17]. **Misclassified** [SY19]. **Missing** [HGF14, KM08, LGSG18, MBB17, PWD17, RPO<sup>+</sup>19]. **Missingness** [XY19]. **mistr** [SH20]. **miWQS** [HW20]. **Mixed** [Bat05, BKvB<sup>+</sup>17, BZ10, DHS19, Hug14, NtP12, SM12, Sze18, Vil17]. **Mixed-Type** [Sze18]. **mixedside** [DHS19]. **Mixing** [Lei02]. **mixtox** [ZC16]. **Mixture** [FT19, GL07, SH20, SFMR16, ZC16, ZM17]. **Mixtures** [AHvD09, PBMSN20]. **mldr** [CC15]. **mle.tools** [MMN17]. **mlr** [PAC<sup>+</sup>17]. **mmpf** [Jon18b]. **mmpp** [HTM15]. **Mode** [KO09]. **Model** [ALB<sup>+</sup>19, AEB17, AH10, Arn17, AdlF18, BGK18, CI17, CRS09, Dug17, FR06a, FR06b, GDF18, GB19, GSHB14, HGF14, IAA17, IBG18, KH19, LZN<sup>+</sup>20, LS20, MHL<sup>+</sup>20, ORC<sup>+</sup>18, PR17, PGCE17, PS16, RPV05, SS18, SCLV20, SFdC18, SB18, Tou16, WV14, ZB20]. **Model-Agnostic** [GB19]. **Model-Based** [FR06b, FR06a]. **Modeling** [BKvB<sup>+</sup>17, Bür18, Fal06, GP08, GJP09, Mor20, OHC19, WAD<sup>+</sup>19, ZM17]. **Modelling** [BKPW20, GL07, MHPO15, Pet03, QGC19, Rib07, Sar13, VAD20]. **Models** [ARS15, ABS08, AWB17, AB17, BB16, BBC<sup>+</sup>18, Bat05, BS13, BB17b, BZ10, CLLG08, CR02, EHD07, FFW13, GW17, GDF18, Gau13, Ger16, GMBL18, GZLW09, HNL12, Han17, HM20, HB19, HWW12, Hug14, JM17, JP18b, KM12, Kos08, LDM03, Mar11, MDDY17, MKRPC19, Mug08, NS17, NtP12, OOFdIFS<sup>+</sup>16, OSS<sup>+</sup>17b, Pap18, RSA10, SM12, SJO<sup>+</sup>20, SFMR16, SVMMP16, Suc13, SD20, TF07, VZ19, Vil17, WB10, WdM13, WR18, dVdMF19, Ott19]. **Modern** [MsHCV18, Wic10]. **Modes** [LL09]. **Module** [DBB<sup>+</sup>16]. **Molecular** [DBB<sup>+</sup>16, Guh06, MO17]. **Monte** [Jon18b]. **Monte-Carlo** [Jon18b]. **mopa** [IBG18]. **mosaic** [PKH17]. **MoTBFs** [PBMSN20]. **Motion** [MO20]. **move** [BCB06]. **mpoly** [Kah13]. **MRCV** [KB14]. **MRI** [Mar02]. **mtk** [WFRM15]. **mudfold** [BKPW20]. **Multi** [Bos17, HHB18, RdC18, SHR17]. **Multi-factor** [HHB18]. **Multi-label** [RdC18]. **Multi-Objective** [Bos17]. **Multi-scale** [SHR17]. **Multi-type** [SHR17]. **Multidimensional** [ORC<sup>+</sup>18, PMM<sup>+</sup>19]. **Multilabel** [CC15, PAC<sup>+</sup>17]. **Multilevel** [Bür18]. **Multinomial** [Jur12, Tou16]. **Multiplatform** [Her11]. **Multiple**

[BFK<sup>+</sup>20, BHW02, CS16, CCdUÁ14, wCTKL20, CCY<sup>+</sup>17, FT19, Fre17, Gau13, HW20, KBBH13, KB14, LLM16, LS20, OSS<sup>+</sup>17a, QGC19, SS18, TLP07, VS15]. **Multiple-Instance** [CCY<sup>+</sup>17]. **multipleNCC** [SS16]. **Multisource** [KCK<sup>+</sup>20]. **Multistate** [ABS08]. **Multivariable** [Ben05]. **Multivariate** [BGK18, CT06, Dal07, FRL<sup>+</sup>16, FFW13, FKP19, Han08, Han15a, Hof13, HWW12, HBG01, JGB14, Kah13, KZDZ18, KGZ14, LDC20, MMS16, MMH09, PR17, SKZS17, SJLD<sup>+</sup>17, SC20, TVMZ10, Vil17, WM10, KLC19, WAD<sup>+</sup>19]. **multitest** [TLP07]. **Murtagh** [Hol06]. **Mutation** [MDDY17]. **MVN** [KGZ14]. **mvna** [ABS08]. **mvtnorm** [MMH09].

**Naive** [Mey02]. **Name** [Mur12b, Tie03]. **namedCapture** [Hoc19]. **Names** [Wai16]. **Naming** [Bää12]. **National** [VFB16]. **Natural** [Arn17, YKT18]. **Navigating** [SNG18]. **NCBI** [Win17]. **ncpen** [KLK20]. **Need** [WW07]. **Negative** [KF16]. **Nelson** [ABS08]. **Nested** [BS13, SS16]. **NetCDF** [MW13]. **Network** [BFHM11, CGLN18, Chr18, CGG13, DY16, GBB<sup>+</sup>17, JM16, MBL18, TBH17]. **Networks** [AL16, DGF08, GF10, JM17, LC06, PBMSN20, SORS06, CC19, Han06a]. **NetworkToolbox** [Chr18]. **Neural** [DY16, GF10]. **neuralnet** [GF10]. **Neuroimage** [MSC14]. **News** [Hor13a, Hor13b, Hor14, Hot16, Hot17a, Hot17b, Hot18a, Hot18b, Hot19a, Hot19b, Hot20a, Hot20b, MH14, MH15, Bio13a, Bio13b, Bio14, The14a, The15a, The15b, Tea16, The16a, Tea17a, Tea17b, Tea18a, Tea18b, Tea19, The19a, The19b, Tea20, Tur20]. **ngspatial** [Hug14]. **NHANES** [VP14]. **Niche** [Car08, Fox05, Han08, Lum01, Lum04b, Ven01, Ven02]. **NlinTS** [Hma20]. **nlme** [HvWDM17]. **NMF** [KF16]. **nmfgpu4R** [KF16]. **NMMAPSdata** [PW04]. **Noise** [MLG<sup>+</sup>17]. **NoiseFiltersR** [MLG<sup>+</sup>17]. **Noisy** [SKZS17]. **Non** [Jar07, KLK20, KF16, Liu14, LQ18, MR06, Mur08, PFMCF18, Vil17, WV06, Dal01a, RFGC20]. **Non-** [Jar07]. **Non-Central** [Liu14, Dal01a]. **Non-Convex** [KLK20]. **Non-Identical** [LQ18, Mur08]. **Non-linear** [WV06]. **Non-Negative** [KF16]. **Non-normal** [Vil17]. **non-probability** [RFGC20]. **Non-Standard** [MR06, PFMCF18]. **noncentrality** [Dal01a]. **Nonlinear** [LCT20, OHC19, TF07]. **Nonparametric** [AG20, AE11, BKPW20, BHH18, Fey16, LBCFV16, NR12, RSR14, SKZS17]. **NonProbEst** [RFGC20]. **Normal** [BF14, DSH07, MMH09, WM10, You16, Cc20, Vil17]. **Normality** [KGZ14]. **Normed** [Han06b]. **Nowcasting** [dVdMF19]. **np** [HR07]. **npordtests** [AG20]. **nsROC** [PFMCF18]. **NTS** [LCT20]. **Nuclear** [MRS17]. **Null** [AE11]. **Number** [Fox05, MH17]. **Numbers** [Han07a, LL05]. **Numerical** [Han15b, MMH09, Poi11, WFRM15].

**O** [AKU17]. **Object** [CL01a]. **Object-Oriented** [CL01a]. **Objective** [Bos17]. **Objectives** [Kos08]. **Objects** [Mur08]. **Observational** [Han07b, NtGP17]. **Observations** [FRL<sup>+</sup>16]. **Occurrence** [Mor20]. **ODE** [Gra14]. **odfWeave** [Kuh06]. **off** [LRMLLCS17]. **oligoMask** [BWM14]. **oLongForm** [Oh14]. **Omegahat** [CL01b]. **ONCOlogy** [ACD<sup>+</sup>16]. **One** [CDT04, DDK18, LK15, MVT19, WS11]. **One-table** [CDT04]. **One-to-One** [MVT19]. **One-Way** [DDK18]. **onewaytests** [DDK18]. **onion** [Han06b]. **Online** [TVMZ10, WCAR16]. **Open** [GZLW09, KY15, LHKB17, TOLS06, Kuh06]. **Open-Channel** [KY15]. **openair** [RC12]. **openEBGM** [CI17]. **OpenLand** [EZ20]. **OpenMx** [PS16]. **OpenStreetMap** [ES13].

**Opinion** [GJP09]. **Optimal** [CPS15, Han07b, LRMLLCS17, SP15, Szk16, WS11, HY18]. **Optimisation** [Scr17]. **optimising** [WV06]. **Optimization** [Bos17, GF19, MVT19, Pal18, XGSH13, ZZZ<sup>+</sup>19]. **Optimizers** [Nas20]. **Optimizing** [DSN17]. **optimParallel** [GF19]. **Options** [KB14]. **Optmatch** [Han07b]. **Order** [Bra05, KLN11]. **Ordered** [AG20, MMS16]. **Ordinal** [GMBL18, LP14, SJB20]. **ordinalClust** [SJB20]. **Organization** [Fox09]. **Organizing** [Bec16]. **Oriented** [CL01a]. **orthoDr** [ZZZ<sup>+</sup>19]. **Orthogonal** [PGCE17]. **Orthogonality** [ZZZ<sup>+</sup>19]. **OrthoPanels** [PGCE17]. **osmar** [ES13]. **other** [Hoc19]. **Outcome** [SY19]. **Outlier** [ANRG18]. **outliers** [Kom06]. **Output** [AEB17, Mur03, ORC<sup>+</sup>18, PBCV06].

**Package** [Abe15, Adä19, Ago01, ABS08, AWB17, AG20, AHLL19, AL16, AEB17, ACD<sup>+</sup>16, AMRdMR15, ABC18, BKPW20, BBC<sup>+</sup>18, BF14, Bea16, Bec16, BBACK18, BHM<sup>+</sup>17, BBTH17, BZST10, BS13, BR20, BACMÁK17, BFK<sup>+</sup>20, Bra05, BHH18, BGK18, BILL16, Bür18, BW15, CA19, Can02, CRS09, CCdUÁ14, CCT15, CMW11, CPS15, CC15, CCFVM17, CDT04, CKL17, CR02, CDLR09, CJB<sup>+</sup>13, DY16, DDK18, Dal01b, DB16, Dem16, DHS19, Dja19, DEVK19, DGF08, DSN17, DDC07, Dug17, DSTT06, ERK16, EHD07, FRL<sup>+</sup>16, Fal06, FLSNG19, FGS19, FVK<sup>+</sup>13, FFW13, FO16, FKP19, FLO20, GK17, GCG<sup>+</sup>16, GPTM15, GF19, Gil04, GSL19, GDGJC20, GSBT<sup>+</sup>20, GB19, Gra14, GS14, Gre17, GMBL18, GB20, GL07, GHM16, HNL12, Han07a, Han15b, Han17, HHB18, HR07, HvWDM17, HTM15, Hma20, HB19, HGF14, HP19]. **Package** [HMZ12, Hug14, IPRT19, ICK18, IAA16, IAA17, IW17, IMA16, IBG18, JGB14, JA18, JM17, Jon18a, JCWL19, Jur12, KSLS20, KO09, KZDZ18, KLK20, KGZ14, Kos08, KBBH13, KBBH15, KB14, KH19, Kuh06, LL09, LOM20, LHKB17, LGE<sup>+</sup>18, Lan01b, Law12, Lec03, LZN<sup>+</sup>20, Lei03, LHR06, Len15, LDC20, Lig03b, LLM16, LBCFV16, Liu14, LK15, LCT20, LS20, LP14, LRMLLCS17, LE18, Lum04a, LMT14, MFCR19, MDDY17, MMN17, MO20, MHR13, MKRPC19, MMS16, MH17, MW13, MsHCV18, Min03, MM15, MSN<sup>+</sup>16, MLG<sup>+</sup>17, MML16, MHPO15, MHL<sup>+</sup>20, Mur02b, Mur07, MP14, Mur15, NS17, NB13, NDWL20, NR12, Nie15, Nor16, NP15, OS18, OK07, OL09, ORVT15, Ott19, OHC19, Pal18, Pap18, PR17, PH09, PW04, Pen06, PBMSN20, Pfe17, PGCE17, Poi11, PT07, PWD17, PLH<sup>+</sup>10, Pra20, PAC<sup>+</sup>17]. **Package** [PKH17, Qia14, QGC19, RPO<sup>+</sup>19, RD01, RdC18, RSA10, Roo16, RdV15, SN18, SG16, SS18, SMBTS19, SE19, SB10, SHR17, SHW18, SORS06, SJO<sup>+</sup>20, Sch07, Sch16, Scr17, SJB20, SP15, SVMMP16, SCEG19, Sha11, Sha13, SY19, SJLD<sup>+</sup>17, SP19, SNG18, DD18, SCLV20, Sou11, SfC18, SC20, SHG14, SL17, TDAP18, TLP07, TD13, Tou16, TF07, UAA18, VZ19, VD13, VB15, VCQ15, Vil17, WV14, Wal16, WS13, WC17, WSK16, War03, War06, WRR18, WM10, WCAR16, WR18, XGSH13, XC08, XY19, Yan02, Yee08, YJBC16, YKT18, You16, YLGT19, Zab14, ZB20, ZC16, ZM17, dVdMF19, dCSPM19, van14, BECDN17, CC19, Cc20, ÇT18, CGG13, Dal02, DSU18, FMMV18, Han05, Han06b, Han06c, HY18, Høj06, HQ16, JP18a, KLWD18, MK19, Mar02, Mev06, Mug08, OGP17, PFMCF18]. **package** [PMMEGM19, RPV05, RFGC20, Sai05, Scr04, VFB16, WBS06, WAD<sup>+</sup>19, Win17, Yoo18]. **Packages** [AE17, Bat03, Bra02, BKvB<sup>+</sup>17, CL01b, DBB<sup>+</sup>16, Fox07, GDRF09, KRJ16, LJ06, NEB<sup>+</sup>20, Plu11, Rip04, Rip05b, Rou05, SB18, SB19, THL16, ZG04, Hoc19, YR03]. **Pages** [GDRF09]. **Pairwise** [VS15]. **pampe** [VB15]. **Panel** [PGCE17, VB15]. **PanJen** [JP18a]. **Parallel**

[AZJH12, GF19, KPBS09, Yu02].  
**Parallelisation** [Scr17]. **Parallelization** [Boe13]. **Parameter** [ARA<sup>+</sup>14, ALB<sup>+</sup>19, ORC<sup>+</sup>18, Dal01a].  
**Parameterized** [VS15]. **Parameters** [Pfe17, SHR17]. **Parametric** [CDLR09, Koe06, SJO<sup>+</sup>20, Jar07]. **Pareto** [Roo16]. **Parsimonious** [CLLG08]. **Part** [Lei02, Lei03]. **Partial** [Gre17, Han17, JGB14]. **Partitioning** [CFF20]. **Partitioning-Based** [CFF20].  
**Party** [SHZ09]. **Pathways** [GCGG04, CC19]. **Pattern** [BACMÁK17]. **Patterns** [SKZS17, WW06]. **PDF** [MR06].  
**pdp** [Gre17]. **Peaks** [Rib07]. **pedigree** [Zha06]. **Penalized** [KLK20]. **Penalties** [PMZ20]. **Penalty** [CCY<sup>+</sup>17]. **Peptides** [ORVT15, ORVT15]. **Perform** [OC07].  
**Performance** [AKU17, LK13]. **Performing** [CPS15, LBCFV16, SP19]. **Period** [Nie15].  
**Permutation** [WB10, YLGT19]. **Persistent** [O'N15]. **Person** [God13, GE14].  
**Perspective** [God13, GE14]. **Perspectives** [Zab14]. **PGEE** [IW17]. **Pharma** [Ric18].  
**Pharmacometric** [GSBT<sup>+</sup>20]. **Phase** [Gra14]. **phaseR** [Gra14]. **Phenotypic** [DD18]. **Phillips** [SP19]. **physical** [FVS<sup>+</sup>20]. **PIN** [Zag13]. **Pioneering** [SCEG19]. **Pipe** [MZ18]. **PITCHf** [Sie14].  
**PITCHf/x** [Sie14]. **pitchRx** [Sie14]. **PivotalR** [Qia14]. **Plagiarism** [BG20].  
**Plane** [Gra14]. **Planning** [LE18]. **Platform** [GD18, Pet03]. **Players** [AL16]. **Plot** [JW06]. **plotrix** [Lem06]. **Plots** [ALH18, Gre17, GB20, Lig02]. **pls** [Mev06].  
**Plug** [Fox07]. **Plug-In** [Fox07]. **PMML** [GZLW09]. **Point** [BK19, EB18, HTM15, LOM20, LRMLLCS17, Mor20, Rou01].  
**Poisson** [CI17, LDC<sup>+</sup>20]. **Policy** [Dam09]. **Polish** [BSZWW14]. **politeness** [YKT18].  
**Polynomials** [Kah13, Ben05, Han08]. **Popular** [THL16]. **Population** [BHM<sup>+</sup>17, DD18, VDK15]. **Portable** [Plu11]. **Portfolio** [Pal18]. **PortfolioOptim** [Pal18]. **Portfolios** [LK13, KE06]. **Porting** [Iac01, dL01]. **Positioning** [SMBTS19].  
**PostGIS** [BB18]. **PostScript** [MR06]. **POT** [Rib07]. **Potential** [MSN<sup>+</sup>16].  
**Poverty** [BRS18]. **powder** [WW06]. **PPCI** [HP19]. **practice** [GB06]. **PracTools** [VDK15]. **Preclinical** [PL05].  
**predictability** [KLWD18]. **Predicting** [OSS<sup>+</sup>17b, dVdMF19]. **Prediction** [BS13, IKR10, Jon18b, Wai16]. **Predictions** [SB18]. **Predictors** [Kos08, NR12, PHL02].  
**Preferences** [Roo16]. **Preprocessing** [Lee16, MLG<sup>+</sup>17]. **Presence** [LGSG18].  
**Presentation** [Arm13]. **Presenting** [Coo11]. **Preserving** [AWB17]. **Primer** [Dal01b]. **Principal** [SG16]. **Prinsimp** [ZHC<sup>+</sup>14]. **Prior** [MK19]. **Probabilistic** [FRG<sup>+</sup>11, GW17]. **Probabilities** [HBG01, MMH09]. **Probability** [GS16, LDB13, SS16, ÇT18, RFGC20].  
**Probes** [BWM14]. **Probit** [WdM13]. **Problems** [CS16, CCdUÁ14, Mar11, MVT19, SN18].  
**Procedure** [SP19]. **Procedures** [GBB<sup>+</sup>17, You16]. **Process** [GGHB18, GPB19, Scr04]. **Processes** [BKPW20, HTM15, Mor20]. **Processing** [AZJH12, Arn17, Kom06, VP14, Wic10].  
**Profile** [BR20, LGSG18]. **profileModel** [Kos08]. **Profiling** [Kos08, RdV15].  
**Progeny** [HQ16]. **progenyClust** [HQ16]. **Program** [VB15]. **Programmer** [Car08, Fox05, Han08, Lum01, Lum04b, Ven01, Ven02]. **Programming** [CL01a, GD18, Lan17, Rah18, Rou05, Szk16, WS11].  
**Progressive** [AdF18]. **Project** [Fox09, Bio13a, Bio13b, Bio14, The14a, The15a, The15b, Tea16, The16a, Tea17a, Tea17b, Tea18a, Tea18b, Tea19, Tea20].  
**Projected** [Fre17]. **Projection** [HP19]. **Projections** [Adä19, IBG18, SC20].  
**ProjectManagement** [GDGJC20]. **Projects** [GDGJC20]. **Propagation** [SHW18]. **properties** [Han06a].

**Proportional** [KH19, MHL<sup>+</sup>20, NS17].  
**Proportions** [WS13]. **Proposal** [Bar18].  
**Protein** [Sch06]. **Provenance** [Nas20].  
**Providing** [GF19, WV14]. **pseval** [SG16].  
**PSF** [BACMÁK17]. **Pstat** [DD18].  
**Psychometric** [Chr18, LLM16].  
**Psychometrics** [MH07, MD18]. **PubMed**  
 [GG02]. **Pure** [MHR13]. **Purpose**  
 [WFRM15]. **Pursuit** [HP19]. **Putting**  
 [BC18]. **puzzle** [GSBT<sup>+</sup>20].

**Q** [Zab14]. **QCA** [OS18, TD13]. **qcc** [Scr04].  
**QGIS** [MSB17]. **qmethod** [Zab14]. **QPot**  
 [MSN<sup>+</sup>16]. **Qtools** [Ger16]. **Quadratic**  
 [Rah18]. **Quadtree** [LOM20]. **Qualitative**  
 [TD13]. **Quality** [RC12, Saw02, Scr04].  
**QuantifQuantile** [CPS15]. **Quantifying**  
 [GSL19]. **Quantile**  
 [ALH18, CPS15, Ger16, HW20, LBCFV16].  
**Quantile-Quantile** [ALH18]. **Quantitative**  
 [BB17a, EZ20]. **Quantities** [KH19].  
**Quantization** [CPS15]. **quantreg.nonpar**  
 [LBCFV16]. **Quasi** [MSN<sup>+</sup>16].  
**Quasi-Potential** [MSN<sup>+</sup>16]. **Querying**  
 [GG02]. **Queueing** [JM17, JM17]. **Queues**  
 [O’N15]. **quickpsy** [LLM16].

**R** [BND11, BSZWW14, BAB<sup>+</sup>17, BKJ<sup>+</sup>18,  
 BPC<sup>+</sup>20, KLM20, Lei07, LG13, Lia07,  
 Abe15, Adä19, ABS08, AWB17, ALH18,  
 Alp07, AG20, AHLL19, AL16, AB17, AEB17,  
 AZJH12, ABC18, AKU17, Bää12, BB16,  
 BND11, BKPW20, BDH17, BBC<sup>+</sup>18, Bar18,  
 BG20, BECDN17, Bat04, Bat05, BF14, BK19,  
 Bea16, Bec16, BBACK18, BBTH17, BS12,  
 BS13, BR20, Boe13, BE17, BACMÁK17,  
 BFK<sup>+</sup>20, BVB13, Bra05, BHW02, BGK18,  
 BH05, BB18, Bür18, BW15, CI17, CA19,  
 Can02, Car08, CRS09, CCdUÁ14, CCT15,  
 ÇT18, CL01a, CL01b, Cha09, Cha20,  
 wCTKL20, CPS15, CC15, CLLG08,  
 CCFVM17, CCFVL20, CE18, CKL17, Chr18,  
 CDLR09, CGG13, Use13, DY16, DDK18,  
 Dal01b, Dal02, Dam09, DB16, Dem16,  
 DZK13, Dja19, DEVK19, DSN17, DSU18,  
 DYB02, Dug17, DSTT06, Dur06, ERK16]. **R**  
 [ES13, FRL<sup>+</sup>16, Fei08, FLSNG19, FGS19,  
 Fey16, FMMV18, FVK<sup>+</sup>13, FKW<sup>+</sup>18, Fox07,  
 Fox09, FRG<sup>+</sup>11, FO16, FKP19, FLO20,  
 GK17, GB06, GDF18, GCG<sup>+</sup>16, GDM<sup>+</sup>17,  
 GGHB18, GPTM15, GF19, GdC11, GT14,  
 Gil04, GD18, GSL19, GKZK16, GDGJC20,  
 GSBT<sup>+</sup>20, GB19, GDRF09, Gra14, GS14,  
 Gre17, GP04, GL07, GPB19, GHM16,  
 Guh06, Hah17, HJKK19, Han05, Han06b,  
 Han06c, Han07a, Han08, HHB18, Her11,  
 Hin17, HY18, Hma20, Hoc19, HB19, HUC13,  
 HP19, HMZ12, Hor13a, Hor13b, Hor14,  
 Hot01, HBG01, HL02, Hot16, Hot17a,  
 Hot17b, Hot18a, Hot18b, Hot19a, Hot19b,  
 Hot20a, Hot20b, HQ16, Iac01, ICK18,  
 IAA16, IAA17, IW17, IMA16, IK07, JGB14,  
 JA18, JP18a, JM17, Jon18a, JCWL19,  
 Jur12, Kah13, KMH20, KE06, Kap14,  
 KMKT20, KSLs20, KG06, KRJ16, KZDZ18].  
**R** [KLC19, KPBS09, Kol19, KY15, KGZ14,  
 Kos08, KRM18, KH19, LL09, LVV11,  
 LOM20, LGE<sup>+</sup>18, Lan17, LDB13, LZN<sup>+</sup>20,  
 Lee14, Lee16, Lei02, LR01, LDC20, Lig02,  
 Lig03a, Lig03b, LM05, Lig06, LF08, LLM16,  
 LBCFV16, Liu14, LK15, LCT20, LS20,  
 LDM03, LRMLLCS17, Lum01, Lum03,  
 Luq07, MH14, MH15, MK19, Mar02, MQ06,  
 MFCR19, MZB<sup>+</sup>18, MDDY17, MMN17,  
 MO20, MHR13, MKL20, MKRPC19,  
 MMS16, MH17, MsHCV18, MM15, MSN<sup>+</sup>16,  
 Mor18, MLG<sup>+</sup>17, MML16, MHPO15,  
 MBB17, MHL<sup>+</sup>20, MZ18, MSB17, Mug08,  
 MU09, Mur04, Mur09, Mur11, Mur05b,  
 MSLC15, NS17, NB13, Nas20, NW07,  
 NDWL20, Nie15, Nor16, NTE14, NP15,  
 NEB<sup>+</sup>20, O’N15, OS18, OK07, OOFdIFS<sup>+</sup>16,  
 OC07, Oom13, OGP17, OSS<sup>+</sup>17a, Ott19,  
 OHC19, Pap18, PR17, PB05, PMH16,  
 Peb18, PBMSN20, PFMCF18, Pet03]. **R**  
 [Pfe17, PGCE17, PL05, PMM<sup>+</sup>19, Plu11,  
 Plu15, Poc06, PMMEGM19, PWD17,  
 PLH<sup>+</sup>10, Pra20, PAC<sup>+</sup>17, PKH17, Qiu15,

RPV05, Rah18, RPO<sup>+</sup>19, Ric18, RBK18, Rip01b, Rip01c, Rip02, Rip04, Rip05a, Rip05b, RdC18, Rob07, RBB<sup>+</sup>15, RBS13, RdV15, RFGC20, SN18, SM12, SMBTS19, SE19, SHW18, Sch03, Sch04, Sch07, Sch16, Scr04, SJB20, SP15, SVMMP16, Sha11, Sha13, SY19, SD13, SNG18, DD18, SPS10, Sól10, SCLV20, Sou11, Spe17, SFdC18, SC20, SHG14, SB19, Sto14, SD20, SL17, Sze18, THL16, TDAP18, The13a, The13b, The14b, The14c, The15d, The15c, The16b, The16c, The17a, The17b, The18a, The18b, The19a, The19b, TKM15, TZ09, Tie03, UPA18, UAA18, Ulr13, VP14, VB15, Ver05, VCQ15, VS15, VFB16, WV14, Wal16, WS13, WFRM15, WC17, WBS06, WSK16]. **R** [WRR18, WdM13, Wil09, WCAR16, Win17, Woo01, Wri16, XGSH13, Xie05, XY19, YR03, Yan04, YJBC16, dLN<sup>+</sup>18, Yu02, Zag13, ZB20, ZG04, Zha06, ZC16, ZM17, dL01, dVdMF19, van14, Hol06]. **R-Forge** [TZ09]. **R-Package** [Ott19, WBS06]. **R-Tcl** [Dal01b, Dal02]. **R-Tcl/Tk** [Dal01b, Dal02]. **R/Finance** [Ulr13]. **R/Sweave** [GB06]. **R2HTML** [Lec03]. **rainbow** [Sha11]. **Random** [BS13, Dem16, EHD07, GPTM15, HBH15, IK07, LQ18, Sar13, Sch01, LL05]. **randomForest** [LW02]. **Randomization** [YLGT19, Sai05]. **Randomized** [PWD17, YLGT19]. **Randomness** [DB16]. **Rank** [AWB17, BS13, Han17, Hot01, HL02, KM12]. **Rank-Based** [BS13, KM12]. **Rankcluster** [JGB14]. **Ranked** [SCEG19]. **Ranking** [JP18a, VS15]. **Rankings** [JGB14]. **Raster** [Mur11]. **Rate** [OL09]. **rating** [KLWD18]. **RatingScaleReduction** [KLWD18]. **Ratios** [DSH07]. **Rattle** [Wil09]. **ray** [WW06]. **RC** [COGRB16, Dem16]. **rCBA** [HJKK19]. **Rcgi** [Ray01]. **RcmdrPlugin.temis** [BVB13]. **rcosmo** [FLO20]. **RcppMsgPack** [CE18]. **rcss** [HY18]. **rdrobust** [CCT15]. **Reactions** [OGP17]. **Read** [Nor16]. **Reading** [MW13, Mur02a]. **RealVAMS** [BGK18]. **Record** [MVT19]. **RecordLinkage** [SB10]. **Recreational** [Han05]. **Recursive** [VZ19]. **Reduction** [EO03, KRM18, ZZZ<sup>+</sup>19, KLWD18]. **Refer** [HMZ12]. **Reference** [Bro16]. **References** [Mur10]. **regimes** [WAD<sup>+</sup>19]. **regress** [CM06]. **Regression** [AB17, AdlF18, Bea16, BHM<sup>+</sup>17, BB17b, CCT15, CFF20, CPS15, CCY<sup>+</sup>17, GMBL18, GSHB14, HW20, HM20, IAA17, IKR10, JP18a, Jur12, LW02, LBCFV16, LK15, MKRPC19, MMZ16, Mug08, NR12, OSS<sup>+</sup>17b, Pap18, SVMMP16, SD20, UAA18, Woo01, YJBC16, Zei01, ZH02, WV06]. **Regression-Discontinuity** [CCT15]. **Regressor** [WB10]. **Regressors** [IAA16, IAA17]. **regular** [Hoc19]. **Relationships** [Mug08, Zei01, ZH02]. **Removing** [BWM14]. **Rencontres** [SD13]. **rentrez** [Win17]. **Reparameterization** [PGCE17]. **Repeated** [FKP19, HHB18]. **Replicating** [Dam09]. **Report** [AdSQ18, BDH17, BSZWW14, BAB<sup>+</sup>17, BKJ<sup>+</sup>18, BPC<sup>+</sup>20, CvDMvE19, Dar18, GT14, LAL18, Ric16, Ric18, RBK18, SD13, Tve15, Ulr13, Ver17, MZB<sup>+</sup>18, RBK18]. **Reports** [SFdC18, Str19]. **Representation** [SJLD<sup>+</sup>17]. **Reproducible** [Lee14, NDWL20, RBB<sup>+</sup>15, TVMZ10]. **Resampling** [Can02, FKP19]. **Resampling-Based** [FKP19]. **Research** [KMKT20, Lee14, TVMZ10, WCAR16]. **Residual** [HvWDM17, dCSPM19]. **Residuals** [GMBL18, WB10]. **resistor** [Han06a]. **Resolution** [MSC14]. **Resources** [Dur06]. **Response** [Adä19, Koe06, KB14, OSS<sup>+</sup>17a, XY19, PLH<sup>+</sup>10, Ran06]. **Responses** [Tou16]. **Results** [THL16]. **Retail** [Wie17]. **Retrieval** [LHKB17]. **Retrieve** [VFB16]. **Retrieving** [Bec16]. **revenge** [DSU18]. **Reverse** [DSU18, SORS06]. **Review** [Bar18, Hol06, Lei07, LG13, Lia07, RdV15]. **Rfit** [KM12]. **rFSA** [LGE<sup>+</sup>18]. **rggobi**



[WLLS08]. **Rgraphviz** [GCGG04]. **Rica** [Mor20]. **Ridge** [UAA18, Woo01]. **Right** [LGSG18]. **Risk** [ABC18, Mor18, OSS<sup>+</sup>17b]. **riskRegression** [OSS<sup>+</sup>17b]. **Risks** [AHLL19, KSLS20]. **River** [VFB16]. **rlfsm** [MO20]. **rlme** [BS13]. **rmdcev** [LS20]. **Rmetrics** [CMW11]. **Rmpi** [Yu02]. **RNavicell** [DBB<sup>+</sup>16]. **RNetCDF** [MW13]. **RNGforGPD** [LDC20]. **rnrfa** [VFB16]. **roahd** [IPRT19]. **Robotics** [DZK13]. **Robust** [Ago01, Bea16, BFK<sup>+</sup>20, CCT15, GPB19, IPRT19, PWD17, Vil17]. **RobustGaSP** [GPB19]. **ROC** [GKZK16, PFMCF18]. **Rocker** [BE17]. **Rockerverse** [NEB<sup>+</sup>20]. **role** [Poc06]. **Roles** [HMZ12]. **Rolling** [JCWL19]. **rollmatch** [JCWL19]. **ROSE** [LMT14]. **rotations** [SHG14]. **Routine** [MD18]. **Routines** [Lan01a, MVT19]. **rpanel** [BCB06]. **rpostgis** [BB18]. **rPref** [Roo16]. **rpsftm** [AWB17]. **RPVM** [CMM03, LR01]. **RQGIS** [MSB17]. **RSSampling** [SCEG19]. **RStorm** [Kap14]. **rstream** [LL05]. **rTableICC** [Dem16]. **RTextTools** [CJB<sup>+</sup>13]. **rtp** [BRS18]. **Rules** [Hah17]. **Rum2020** [FVS<sup>+</sup>20]. **Running** [Xie05]. **RWiener** [WV14]. **rworldmap** [Sou11]. **Rwui** [NW07].

**S** [Cha20]. **S3** [Lum04b, MZ18]. **S4** [Bat03, Lum04b, RKSC06, SJLD<sup>+</sup>17]. **sae** [MM15]. **Sample** [OL09, War06, BHH18]. **Samples** [CDLR09, VDK15]. **Sampling** [Hof13, SCEG19]. **SARIMA** [SFdC18]. **SAS** [Dam09]. **Saturation** [Suc20]. **Saunders** [LHR06]. **sbtools** [WCAR16]. **Scalable** [KSLS20]. **scale** [DBB<sup>+</sup>16, KLWD18, SHR17]. **Scattered** [OK07]. **Scatterplots** [Poi11]. **Schema** [Nor16]. **Schema-on-Read** [Nor16]. **SchemaOnRead** [Nor16]. **Scheme** [VS15]. **Science** [Cha20]. **Scientists** [BB17a]. **scmamp** [CS16]. **Screens** [SH06]. **Scripts** [NW07]. **SDEFSR** [GCG<sup>+</sup>16]. **sdpt3r** [Rah18]. **Search** [Lan01a]. **Searching** [GDRF09]. **Seasonal** [BBD12]. **segmented** [Mug08]. **Seismology** [BH05]. **Selected** [HL02]. **Selecting** [MH17]. **Selection** [CRS09, GDF18, GPTM15, IKR10, MHL<sup>+</sup>20, Pap18, PMM<sup>+</sup>19, SVMMP16, Yoo18, LC15]. **Semi** [AHLL19, Jar07, Jur12, SJO<sup>+</sup>20, BBC<sup>+</sup>18]. **Semi-automated** [Jur12]. **Semi-competing** [AHLL19]. **semi-Markov** [BBC<sup>+</sup>18]. **Semi-Parametric** [SJO<sup>+</sup>20, Jar07]. **SemiCompRisks** [AHLL19]. **Semidefinite** [Rah18]. **Semiparametric** [Pap18, WR18, ZZZ<sup>+</sup>19]. **Sensitivity** [WFRM15]. **separation** [WV06]. **Sequence** [BACMÁK17, Wri16]. **Sequential** [Abe15, Liu14, Szk16, PZK06]. **SER** [LAL18]. **Series** [BBACK18, BR20, Hma20, LBCFV16, LCT20, MFCR19, Mey02, MML16, MBB17, ORC<sup>+</sup>18, PF16, PMMEGM19, Rip02, SE19, SS13, Sha11, Sha13, WC17, HWW12, WAD<sup>+</sup>19]. **Service** [Wie17]. **Services** [Kol19]. **Session** [BS12]. **Set** [SCEG19]. **SetMethods** [OS18]. **Sets** [HB19]. **sfCluster** [KPBS09]. **sgof** [CCdUÁ14]. **sg** [LP14]. **Shadow** [DEVK19, DEVK19]. **Shapes** [WG10]. **Sharing** [GZLW09]. **Shiny** [CKL17, KMKT20]. **ShinyItemAnalysis** [MD18]. **Short** [DY16, LK06]. **showtext** [Qiu15]. **Shrinker** [CI17]. **sided** [Fay10]. **siggenes** [SKI06]. **SimCorMultRes** [Tou16]. **SimCorrMix** [FT19]. **SIMEX** [LK06]. **SimilaR** [BG20]. **Similarity** [HTM15]. **Simple** [Arm13, CDLR09, HTM15, LB16, Lum04b, Peb18]. **Simulated** [XGSH13]. **Simulating** [GW17, LP14, SKZS17, Tou16]. **Simulation** [BBC<sup>+</sup>18, FT19, JP18b, LS20, Pet03, Sch01, Suc13, LL05]. **Simulations** [ARA<sup>+</sup>14]. **Simultaneous** [ARS15, VZ19]. **Single** [Bos17, JP18b]. **Single-** [Bos17]. **Single-Equation** [JP18b]. **SIRE** [VZ19]. **Six** [KMKT20]. **Size** [OL09, War06]. **Sizes**

[BHH18]. **Skew** [MUX20, Suc13]. **Skew-**  
**[MUX20]. Slab** [IKR10]. **Sloth** [Mor20].  
**Small** [MM15, Mor18]. **SMM** [BBC<sup>+</sup>18].  
**smoof** [Bos17]. **Smoothed** [BGBV20].  
**Smoothing** [RSR14]. **SMR** [BF14].  
**Snowboot** [CGLN18]. **snowfall** [KPBS09].  
**SNP** [Car06]. **Social**  
 [AL16, BFHM11, Fox09, JM16]. **Software**  
 [CG06, EZ20, GE14, MSLC15, TZ09].  
**Solution** [BVB13]. **Solver** [ZB20]. **Solving**  
 [SPS10]. **Some** [FR06b, Gen02, Scr17].  
**Sorted** [CCFVL20]. **SortedEffects**  
 [CCFVL20]. **sos** [GDRF09]. **Source**  
 [Mur10]. **Sources** [Lig06]. **Space**  
 [ORC<sup>+</sup>18, Tie03, HWW12]. **Spaced**  
 [PMMEGM19]. **sparkTable** [TKM15].  
**Sparse** [Hug14, LC15, NS17]. **spartan**  
 [ARA<sup>+</sup>14]. **Spatial**  
 [ARS15, BGBV20, Biv01, BB18, CR02,  
 GSL19, Hug14, KW13, Mor20, Ott19, Peb18,  
 Sar13, SHW18, WdM13, PB05]. **Spatio**  
 [GPH16]. **Spatio-Temporal** [GPH16].  
**Spatiotemporal** [Ott19]. **spcadjust**  
 [GK17]. **spduration** [BHM<sup>+</sup>17]. **Special**  
 [Han06c]. **Species** [IBG18, Mor20]. **Specific**  
 [Suc20]. **Specification** [Tou16]. **Specified**  
 [Suc20]. **Specifying** [HB19]. **Spectrum**  
 [KO09]. **Speed** [BKvB<sup>+</sup>17]. **Spell** [Fox05].  
**Spelling** [HM11]. **spGARCH** [Ott19].  
**Spherical** [FLO20, OK07]. **SpherWave**  
 [OK07]. **Spike** [IKR10]. **spikeslab** [IKR10].  
**spinifex** [SC20]. **Splines** [NR12]. **Split**  
 [BHM<sup>+</sup>17]. **Split-Population** [BHM<sup>+</sup>17].  
**Splitting** [BHM<sup>+</sup>17]. **spMC** [Sar13].  
**Sports** [NDWL20]. **Spread** [GSL19]. **spup**  
 [SHW18]. **squared** [Dal01a]. **Squares**  
 [Bat04, CFF20, CKL17]. **SRCS** [VS15].  
**ssize** [War06]. **ssize.fdr** [OL09]. **Stable**  
 [ALB<sup>+</sup>19, MO20]. **Stacks** [O'N15].  
**Standard** [GZLW09, HvWDM17, MUX20,  
 MR06, PFMCF18]. **Standardized** [Peb18].  
**StarBioTrek** [CC19]. **Started** [Wic11].  
**Stata** [Dam09]. **State** [Båå12, HWW12].  
**State-space** [HWW12]. **Stationarity**  
 [NTE14]. **Stationary** [JP18b]. **Statistical**  
 [BH05, CS16, CDLR09, God13, GP08, LR01,  
 MSB17, THL16, VS15, XC08, Yu02, Scr04,  
 GE14]. **Statisticians** [PL05]. **Statistics**  
 [Ago01, HL02, Lan01b, Liu14, Ray01, Ver05,  
 Lia07]. **statmod** [GS16]. **stay** [WBS06].  
**Stellar** [VD13, VD13]. **stepwise** [KLWD18].  
**Stilt** [ORC<sup>+</sup>18]. **Stochastic** [BRS18,  
 DHS19, GPB19, MSN<sup>+</sup>16, HY18, LL05].  
**Stoichiometric** [OGP17]. **Story** [HUC13].  
**stplanr** [LE18]. **Strategies** [Gen02].  
**Stratified** [GSHB14, Jon18a, MHL<sup>+</sup>20].  
**Streaming** [Kap14]. **Streams** [LL05].  
**String** [Wic10, van14]. **stringdist** [van14].  
**stringr** [Wic10]. **Strings** [TDAP18].  
**strucchange** [Zei01]. **Structural**  
 [AWB17, Zei01]. **Structure** [ANRG18].  
**Structures** [Bet05]. **Student**  
 [LDM03, AHvD09, AH10]. **Student-**  
**[AHvD09, AH10]. Studentized** [BF14].  
**Students** [PKH17]. **Studies**  
 [FO16, Han07b, Jon18a, PLH<sup>+</sup>10, Sch16,  
 Sto14, Sai05]. **Study** [AE17, Mor20].  
**Stylometry** [ERK16]. **Subgroup**  
 [GCG<sup>+</sup>16]. **Subsets** [LGE<sup>+</sup>18]. **successful**  
 [FVS<sup>+</sup>20]. **SUDAAN** [Dam09]. **Sul** [SP19].  
**Sum** [HW20, LQ18]. **Summarized**  
 [DSU18]. **Sumo** [BS12]. **Supervised**  
 [CJB<sup>+</sup>13]. **Support**  
 [FKW<sup>+</sup>18, Jur12, Mey01, Peb18]. **sure**  
 [GMBL18]. **Surface** [OOFdIFS<sup>+</sup>16, RBS13].  
**Surrogate** [SG16]. **SurvBoost** [MHL<sup>+</sup>20].  
**Survey** [JM16, Lum03]. **Surveys**  
 [AMRdMR15, RFGC20]. **Survival**  
 [wCTKL20, FKW<sup>+</sup>18, IK07, KM08, MMS16,  
 Lum04a]. **Sweave** [Lei02, Bet05, GB06,  
 Gor08, Kuh06, Lei03, Lun11]. **swgee** [XY19].  
**switching** [HY18]. **SWMP** [Bec16].  
**Symmetry** [LRMLLCS17]. **System**  
 [GGHB18, MU09, Qiu15]. **Systems**  
 [Bro16, GCG<sup>+</sup>16, Gra14, GHM16].  
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