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$(\bar{X}, s_c)$ [ECK04]. $(\bar{X}, v_c)$ [ECK04]. (p, q) [IMR17]. $1, 2, 3$ [SMDS11]. 2 [EN11, GKSU15, Grö14]. 2^k [Law08]. 2^{k-p} [Law08]. 2×2 [ILS11]. 3 [AMMRP14, GGK10, LPLPD14]. 4 [HWY18]. **$69.99** [Pos15]. α [LPLPD14, dVSWAL17]. F [Ram00]. G [NE20]. K [KSBZ16, PG15, HFKB12, Lei10, MAK06]. N [MMR20, HMR$^+$13]. p [MF15, ZD17]. Q [JWHS16]. T [Pat00, AHvD09, LM13, MP99, Som98, Som01].

-Components [MP99]. **-function** [PG15]. **-Gram** [HMR$^+$13]. **-Level** [Grö14]. **-Means** [HFKB12, KSBZ16]. **-Mixture** [MMR20]. **-Modeling** [NE20]. **-Modes** [Lei10]. **-Parameter** [HWY18]. **-Shape** [LPLPD14]. **-Stable** [dVSWAL17]. **-State** [AMMRP14]. **-Statistics** [JWHS16].

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2.0 [GK16, KCM08, SBL^{+}10, Sch06]. **2.5** [Sto12]. **2011** [LCK11]. **2nd** [CH11, Dem17, DN17, Dow19, Edd09a, GR17a, GR18a, Grö15a, Hel15, Hel16b, Hel17, Hel18, Kha16c, Kha17a, Kha18c, Kha20, KN17, Lor18, Mai09c, SCD07].

3.0 [WK18, WWH04, Ziv11, Mac12]. **3rd** [Pav20, San10a].

4th [Ros17].

6.4 [MLVMY05].

90 [KKH10, KH13, Mil04, MHdL12, Som98, SB01]. **95** [Gen06].
978-0-19-872906-8 [Hil15b]. **978-0-19-966034-6** [How15a].
978-0-19-967113-7 [Han15]. **978-0-19-982763-3** [Hil15a].

978-0-387-75968-5 [Gro08]. **978-1-118-33258-0** [But15]. **978-1-118-83481-7** [Iac15]. **978-1-118-94109-6** [Hel15]. **978-1-119-95021-9** [Kha15a]. **978-1-4614-8686-2** [Pos15]. **978-1-4614-8774-6** [Kha15b]. **978-1-4822-3736-8** [Grö15a]. **978-1-4939-0983-4** [Nun15]. **978-1-4939-1701-3** [Mat15]. **978-1-4987-0957-6** [Grö16]. **978-1-4987-1154-8** [Gle16]. **978-1-4987-1236-1** [Kha16b]. **978-1-4987-1523-2** [Zei15]. **978-1-78548-004-1** [How15b]. **978-3-319-14092-6** [Zei16]. **978-3-319-14435-1** [Rus15]. **978-3-319-23446-5** [How16b]. **978-3-319-23882-1** [Mat16a]. **978-81-322-2339-9** [Hof15]. **9780198729068.do** [Hil15b]. **9780199660346** [How15a]. **9780199671137.do** [Han15]. **9780199827633.do** [Hil15a]. **9781461487746** [Kha15b]. **9781493909827** [Nun15]. **9781493917013** [Mat15]. **9781498709576** [Grö16]. **9781498711548** [Gle16]. **9781498712361** [Kha16b]. **9781498715232** [Zei15]. **9781785480058** [How15b]. **9783319140926** [Zei16]. **9783319144351** [Rus15]. **9783319234458** [How16b]. **9783319238821** [Mat16a]. **9788132223399** [Hof15].

A3 [FR15]. **Abandoning** [dL05d]. **Aberration** [SSH16]. **Absence** [FM08]. **Abstraction** [BLM+15]. **Abundance** [Fie12, FC11, MMR20]. **academic** [How15a]. **Accelerated** [CKY14, HXY12]. **Acceleration** [DV20]. **Accept** [Hüs06]. **Accept-and-Reject** [Hüs06]. **Acceptance** [CC11, Kie08]. **AcceptanceSampling** [Kie08]. **Accessing** [DC09]. **Accounting** [CKE20]. **Accuracies** [Ngu07]. **Accuracy** [ALO+10, NAA17, Whe14, AGM07]. **Accurate** [AGM07, Hug07, Pat00]. **acebayes** [OWA20]. **Acquiring** [Grö18a]. **across** [GW18]. **acs** [GR17b]. **Action** [Edd12b]. **Active** [dLHM09]. **actuar** [DGP08]. **Actuarial** [DGP08, Spe13]. **ada** [CJM06]. **adabag** [AGG13]. **Adaptive** [AHvD09, Cha16, DHM11, FS20, Ham10, Jam99, KPH+21, MR12, MB17, MMB15, MJGM10, PT07, PT09, PPT20, RSW15, WLK08]. **Add** [But09, KR09, SH17]. **Add-In** [But09, KR09]. **Adding** [Kla18]. **Additional** [CFSR15, Den16]. **Additive** [BKL05, GR18a, GRS12, Han06a, HC05, KB16, KV13, LM19, LC10, Mai06, Pet97b, Sch11, SSM21, SR07b, UAK+15, Woo16]. **ade4** [BD18, DD07, TD07]. **ade4TkGUI** [TD07]. **adehabitat** [Cal07]. **adimpro** [PT07]. **Adjacent** [dLHM09]. **Adjusted** [SFC20, WZ16, MAK06]. **Adjustment** [KK15, KMTS14, SE18]. **AdMit** [AHvD09]. **adoptr** [KPH+21]. **ads** [PG15]. **Advanced** [Wic10]. **Advances** [Str10]. **Advection** [SKS15]. **Advection-Diffusion** [SKS15]. **After** [Mar06a]. **aftgee** [CKY14]. **Age** [Jon07, MAK06, SH07]. **Age-adjusted** [MAK06]. **Age-Period-Cohort** [SH07]. **Age-structured** [Jon07]. **Agent** [RGK20, YZZ+20]. **Agglomerative** [Mül13, Rec10a]. **Aggregation** [Lan14]. **Agricultural** [Ban16]. **Aid** [NV11]. **Aided** [SH09]. **Ajay** [Mat15]. **Alchemy** [Mat16c]. **Algebra** [BE13, KOS20, Kha16b, dL08]. **Algebraic** [Ost20]. **Algorithm** [BM12, Cha03, CLL17, FS13, HC05, HI20, Hüs06, JMD08, KSBZ16, Kon13, LM13, MNA^{+}97, MP99, PK08, RK14, Wol12, Wol15, dLHM09]. **Algorithms** [BMB16, But15, CBA20, DV20, GFS14, Jur15, MGG^{+}04, MYK07, MCM12, Mon06, NV11, SBL^{+}10, Scr13, Scu17, Tri03, YEL18, ZFZ10]. **Aligning** [CS12]. **Alignment** [KSS^{+}07]. **Alignments** [Gio09]. **alphahull** [PLRC10]. **Alternative** [Kam08]. **amei** [MJGM10]. **Amelia** [HKB11]. **American** [GR17b]. **amsrpm** [KSS^{+}07]. **anacor** [dLM09c]. **Analogue** [MHM20, Sim07, Sim07]. **Analyses** [CCD09, Dha10, HM18, Hil06, Pen08b, Vie10, Wil09]. **Analysing** [KWE^{+}17]. **Analysis** [Ach09, ÁBZ20, ASBMB17, Arm19, BM07, BL14, Bai20, Bak20, Ban99, BP12, Bea17, Bec18, BFC02, BBG12, BK17, BER^{+}16, BP19b, BGRR15, BM96, BM97b, BPGC14, BDdM11, BPB09, Bos11, BD18, Bow10, Boy05, Bur12, But08b, Can04a, CFHBK11, CKY14, CFSR15, CSY15, CRW05, CG10, CO16, CL13, DCS20, DN99, DM19, Duo07, DHF15, EE07, EMU20, EL09, Eva11, FBdlF12, Fel12, Fer11, FDGD16, iM16, FF14, FC12, FS20, FM08, FKP17, FGEMI12, GFPB19, GP12, GK16, GKD14, GKSU15, Góm15, GCA12, GDMB08, GU07, GT10, GVM16, Grö10a, Grö15a, GR18b, GV12, HD18, HHB^{+}08b, HSL11, Han05, Har08, HN13, HP09, Hel17, Hil09a, Hil09b, Hil10a, Hla16b, HB17, How16b, HPK18, HSG12, HJS16, JM15, JD15, JCPL19, Jon07, JH16, Kav15, KK15, Kha17b]. **Analysis** [Kha18a, Kha18b, KE14, KS10, Kle16, KR09, Kro16, KT10, KKH10, Lal17, LDHM21, LCK11, LRGTA12, LCL^{+}08, Law08, LJH08, LMO^{+}19, Lei10, Len09a, LFF17, LZHC17, LL11, LC10, LSL20, LRN18b, dUJ13, LSvdVK09, LSvdV19, Lor18, LV16, Lum98, Lum04, LCSC14, LWOW18, MF14, MRV21, MS19, MdL10, MHM20, MDvdV19, MGG^{+}04, Mat16a, MF15, MCAP19, MYK07, MKC21, Meu13, MD18, MHH17, MIG12, MBK18, LMB^{+}07, NGVCFLS19, NG07, NO06, NGBK12, Nun15, Obe14, Ost20, OK14, PB15, PPGD15, PP18, PV20, RBN19, RJH14, RS05, Riz06, RFKM12, RMG12, RGD12, Röv20, San06, San10a, SBL^{+}10, SMM^{+}15, Sch06, She11, SP10, Spa06, SLMV17, SGS^{+}14, TV11, TPE19, TMN16, TM05, TD07, TYH^{+}14, TF09, TBE^{+}21, ÜS10, VM09a, Ver18, Vin17, WLH^{+}18, WdVW^{+}11]. **Analysis** [WO97, WS11, WM14, WG10, Wic11, Wil14a, WEH11, YR19, Yee10, ZG11, Zei15, Zha14, ZQS16, Zha07, ZK12, dS11, dL05b, dLM09c, dWFP11, vdA07, vdA12, vdHvB16, VMY02, GR17a, Hel16b, Edd09a, Eks13, Ell09, Fri12, How16a, Mai09c, VM10, dL05a]. **Analytics** [Kil16, Lal16, Otn17, Rus15]. **Analyze** [EBO^{+}13, GW18, MdUÁC10]. **AnalyzeFMRI** [BDdM11]. **Analyzing** [BT05, BCHY09, BKL05, CB17, DHM11, Eva14, GRMS11, GR16a, GRD13, Gos11, Grö14, KAK05, LX12, MMRP11, Mug10, OO11, RR11, SWAF15, SZ11, Sch16, SM07, dI17, Dow19]. **Anchoring** [WKL11]. **anchors** [WKL11]. **and/or** [KM16]. **Anderson** [MM04]. **Andy** [Hil15b]. **Angoff** [MF14]. **Animal** [MMR20, MLAN02]. **Animated** [NL12]. **Animating** [BdMM08]. **animation** [Xie13]. **Animations** [Xie13]. **ANOVA** [DW17, Gu14, IM05, PKC^{+}20]. **ANOVA_robust** [PKC^{+}20]. **Antagonism** [BN10]. **Anthropometric** [Vin17]. **Anthropometry** [Vin17]. **Antony** [Zei15]. **Any** [BM12]. **app2web**

[VFV13]. **applet** [WO97]. **Application** [BFRP13, HNCI18, Kel07, MH07, SWAF15, WM18, Wol15]. **Applications** [Cha16, GR16b, HR14, Hel16b, Jos05, Mül16, dREP12, SBL04, VFV13, dL05c, San09, Wic10]. **Applied** [Dry09, Sar09, Edd09b, JS13, Kha16a, Lor18, SL09, Zei16]. **Apply** [Wic11]. **Approach** [BV17, DKMT11, EN11, FGEMI12, Gou10, Hil07, Lal17, Mat16b, MSCCV05, Mil17, RJH14, Sar09, SCS13, VS14, San10a, Fay18, Kuk09, Otn17]. **Approaches** [Len09a, PU13]. **Approximate** [Gra16, OWA20]. **Approximation** [HH14, KNB^{+}16, LPLPD14]. **Arbitrary** [BH08a]. **ArcGIS** [PV14]. **Archaeological** [PV20]. **ArchaeoPhases** [PV20]. **Archetypal** [EL09]. **Archimedean** [GHH20, HM11, OR14]. **archivist** [BK17]. **Area** [HMM21, LW03]. **Areal** [GF15, LRN18a]. **arf3DS4** [WdVW^{+}11]. **Arguments** [Hof11, Hug07]. **ARIMA** [Bel11b]. **Arithmetic** [BH07, BH08b, KJ14]. **Arm** [JPM19, KWE^{+}17, LZHC17]. **Arm-Based** [LZHC17]. **Array** [BS18, LBW18]. **Arrow** [TKM07]. **Art** [SME^{+}09, Lan14]. **Arthur** [Han15]. **arules** [HGH05]. **ASMap** [TB17]. **aspect** [MdL10]. **Aspects** [MHH08]. **Assemblage** [Yua07]. **Assembly** [GC18]. **Assess** [Bar96]. **Assessing** [BN10, CBAA19, Kie08, LQC^{+}12, ZFH^{+}20]. **Assessment** [AACRC21, CB17, JvdBP07, SlRC16, Smi07, USHH18, WEH11]. **Assessments** [ZUL14]. **Asset** [TBS14]. **Assistant** [PE19]. **Association** [HGH05, HSG12, MF15, SL09, WZL20, ZFZ10, ZPZW21]. **Associations** [BGM06]. **AssocTests** [WZL20]. **Asymmetry** [LS02a]. **Asymptotic** [BLR97, FS10a, ZFZ10]. **Asypow** [BLR97]. **Attachment** [PSS20]. **Attributable** [LVK^{+}11]. **Attributes** [BGM06]. **Augmentation** [TDRD15]. **Authoring** [Mor18]. **Automated** [AM11, CdM10, PRS18, Sek11, Iac15]. **Automatic** [GZ09, HK08, KNB^{+}16, Nas05]. **Automatically** [HL09]. **Autoregression** [MZ08]. **Autoregressive** [ABC19, KLNN20, Lee13, LRN18a, Tri03, Wan13b]. **Auxiliary** [TKM07]. **Average** [AW16, HPWdL15]. **Averaging** [BK15, CN18, WB08, ZF15].

B [Hil15a, WG00]. **B/D** [WG00]. **B2Z** [MBR11]. **BACCO** [Han05]. **Back** [Kro16, WDT^{+}12, vdHvB16]. **Back-End** [WDT^{+}12]. **Bagging** [AGG13]. **Balance** [Sek11]. **Balanced** [IM05]. **Balancing** [HX13]. **Ball** [ZPZW21]. **bamdit** [Ver18]. **BAMP** [SH07]. **Band** [WZ16]. **Bandit** [KvEPK20]. **Bands** [JLZJ05]. **Bandwidth** [dREP12]. **BANOVA** [DW17]. **Bar** [HR14, TKM07]. **BARD** [AM11]. **BARS** [WLK08]. **BART** [SSM21]. **bartMachine** [KB16]. **Base** [Hel16a, Wei12]. **Baseball** [Dow19, Dow18]. **Based** [AG19, AR14, AWBM18, BBG12, BIG17, BP19b, BYPJ19, Bra15, Bro15, BR17, CCF19, CBA20, CQZ^{+}10, CB21, CYK^{+}09, CFT11, Cul11, DP12, ESKHB20, FHH17, FS13, Fuj17, GRMMR19, GFS14, HPD19, HD12, HMM21, HMR^{+}13, IoG10, JLH^{+}20, KBMB19, Kle16, KK14, KSPR16, Lal17, LIL^{+}15, LSPvdL17, LR20, LZHC17, LBC^{+}16, LG11, MSCCV05, Mel16, MVS13, MNT17, NO06, Nor17, NAA17, PMD19, QY19, RBHB15, RGD12, SL09, SWAF15, San10a, SR18, Scu17, SLS+12, TM05, TFR16, TBE+21, WMS17, Wee10, XTL13, YFK+15, ZK12, BM07, Ban99, FR07, GU07, MLAN02, MAK06, Gum07]. **Baseline** [KMG+13]. **Bases** [KT10]. **Basic** [Aiz12, Fox05b, PLR+16, Kha03]. **Basic-Statistics** [Fox05b]. **Basics** [Fox05a, Kha16b]. **Basis** [Pac07]. **BASS** [FS20]. **Batch** [BLM+15, Hof11]. **BatchExperiments** [BLM+15]. **Batching** [Hof11]. **BatchJobs** [BLM+15]. **Bayes** [JS05, KG17, MHdL12, NE20, Woo05, WG00]. **bayesclust** [GFC12]. **Bayesian** [Eks13, Hil07, AGZ19, BS15, BGH+17, BV17, BK15, Bos11, BD03, BKL05, Bür17, Bur12, CF14, Can17, CRW05, CG10, DR20, DW17, DN99, EE07, iM16, FS20, GF15, GG16, GTDT20, Gra07, GR18b, Han05, JHQ+11, JCPL19, KB16, Lee13, LR15a, LBC+16, MS19, MHE20, MSCCV05, MR18, MW19, MBR11, Mur15, ND12, NAA17, OK14, OWA20, Pac07, PPGRMB21, PHF10, Röv20, SP14, Sav16, Sch11, SH07, Scu10, Scu17, She10, SCS13, SSM21, SBMD14, SMS13, TDRD15, TR17, Ver18, VR14, WLK08, WLH+18, WM14, WEH11, YZZ+20, YR19, YMB20, ZF15, Zha14, ZLC18, ZHZ20, dS11, Dem17, Ham10, Hil07, Hil10a, Pos15]. **BayesLCA** [WM14]. **bayesmeta** [Röv20]. **BayesNetBP** [YMB20]. **bayesPop** [SR16]. **bayesQR** [BV17]. **bayesTFR** [SAR11]. **BayesX** [BKL05, UAK+15]. **BB** [VG09]. **BClass** [MSCCV05]. **bclust** [ND12]. **bcp** [EE07]. **bcrm** [SMS13]. **BDgraph** [MW19]. **BDM** [MH05]. **Beanplot** [Kam08]. **beanz** [WLH+18]. **Behavioral** [Lan14]. **benchden** [MW12]. **Benchmark** [MW12]. **Bergm** [CF14]. **Bernoulli** [BS18, MHT07]. **Bernstein** [Can17]. **Bespoke** [NRD16]. **BeSS** [WZQW20]. **Best** [Day01, Nas14, WZQW20]. **Beta** [BRC98, CNZ10, GKZ12, MP14, NAA17]. **Beta-Binomial** [NAA17]. **Better** [AM11]. **Between** [SBMG06, WDT+12, WZ16]. **Beyond** [MDvdV19, PT11, SDJ20, Var14, ZUL14]. **BFDA** [YR19]. **bgmm** [BSVT12]. **Bi** [TV11]. **Bi-Parental** [TV11]. **Bias** [CCF19, CHML17, FS12, NGVCFLS19]. **Bias-Corrected** [CCF19]. **Bias-Reduced** [FS12]. **bibliographical** [Coe00]. **Bidimensional** [Car13]. **BiDimRegression** [Car13]. **BIEMS** [MHdL12]. **Big** [How15a, Iac17]. **bild** [GCA12]. **Binary** [GCA12, LP17, MD18, Ngu07, SF19]. **Binomial** [AH12, DM18, KV13, NAA17, TKM17]. **bio** [Hel15]. **bio.infer** [Yua07]. **Bioassay** [RS05]. **Bioconductor** [dSdSCLC18, Unw09]. **Biodiversity** [Han07b]. **Bioinformatics** [Sch08, dL09b]. **Biological** [KHLF+10, MSCCV05]. **Biologists** [Hil15b]. **Biology** [BFRP13, LCL+08]. **BioMark** [WF12]. **Biometrics** [Gow16]. **Biostatistics** [HGG08]. **Bipartite** [AH08]. **Biplot** [LS02b, Udi05]. **BiplotGUI** [lGlRGL09]. **Biplots** [lGlRGL09]. **Birds** [EBO+13]. **Bivariate** [EC16, GR18b, KN05, Kha16a, MH05, Mey13, MMM12, Nag18, NAA17, PZK+12, SSV14]. **Black** [SGHY11]. **blavaan** [MR18]. **Blind** [GL14, MNT17, NMM+21]. **blm** [KV13]. **blockcluster** [BIG17]. **Blocked** [MvB14]. **Blocking** [LSC09]. **BMS** [ZF15]. **bnlearn** [Scu10, Scu17]. **boa** [Smi07]. **Boca** [Gle16, Grö15a, Grö16, Kha16b, Zei15]. **BOIN** [YZZ+20]. **Book**

[Ach09, Arm19, Ban16, Bar18, Bow09, Bow10, Boy05, Bul06, But15, Chr09, Chr11, CH11, Cox07, Dem11, Dem17, DN17, Dem18a, Dem18b, Der10, Dow16, Dow17, Dow18, Dow19, Edd09b, Edd09a, Edd09c, Edd11, Edd12b, Edd12a, Eks10, Eks13, Ell09, Eva11, Eva14, Fay18, Fox05a, Fri12, Gen06, Gle16, GR16b, GR17a, GR17b, GR18a, Gou05, Gou10, Grö10a, Grö11, Grö13, Grö15b, Grö15a, Grö16, Grö17, Grö18a, Grö19, Grö21, Gro18c, Gro08, Gum07, Ham10, Han15, Har08, Hel15, Hel16a, Hel16b, Hel17, Hel18, Hel20, Hil06, Hil07, Hil09a, Hil09b, Hil10b, Hil10a, Hil15a, Hil15b, Hof15, How11, How15a, How15b, How16a, How16b, Iac15, Iac17, JS13, Kha15b, Kha15a, Kha16a, Kha16b, Kha16c, Kha17a, Kha17b, Kha18a, Kha18b, Kha18c]. **Book** [Kha20, Kil16, KN17, Kuk09, Lal16, Lal17, Lan17, Len09a, Leo10, Lor17, Lor18, Mai06, Mai07, Mai09a, Mai09b, Mai08, Mai09c, Mal09, Mat13, Mat15, Mat16b, Mat16a, McN14, MT14, Mor18, Mül16, Mun14, Mur05, Mur06, Nun15, Oom10, Otn17, Pav16, Pav20, Pie05, Pos15, Ros09, Ros17, Rui16, Rus15, Sab07, SL09, San06, San07, San09, San10b, San10a, San11, SCD07, Sar09, Sch08, She11, Soe10, Spa06, Str10, Unw09, VM09b, VM09a, VM10, Web16, Wic08b, Wic08a, Wic10, WG10, Wil14a, Wil09, Wil14b, Xu06, Yal10, Zei15, Zei16, Zho10, dL05b, dL05c, dL05a, dL06, dL07, dL08, dL09a, dL09c, dL09b, dL12]. **bookdown** [Mor18]. **Books** [Mor18]. **books.html** [Pos15]. **Boosting** [AGG13, BRG20, CJM06]. **Bootstrap** [HH14, LCD18, MAK06, VW13, VdL09]. **Bootstrap-based** [MAK06]. **Boruta** [KR10b]. **Boundary** [DLN17, HS18]. **Bounds** [Hla16b]. **Box** [EB03, SGHY11]. **Box-Percentile** [EB03]. **Boxplot** [Kam08]. **BPEC** [MHE20]. **Bradley** [Fir05, TF12]. **BradleyTerry2** [TF12]. **Brain** [RR11]. **Breaks** [PRS18]. **bridgesampling** [GSW20]. **Bring** [Tiv19]. **brms** [Bür17]. **Brownian** [Coe00]. **BRugs** [KCCG11, MW10]. **bsamGP** [JCPL19]. **bspmma** [Bur12]. **BSSasymp** [MNT17]. **btergm** [LCD18]. **Bubbles** [Cas17]. **BUGS** [Eks13, Cur10, GTDT20, Ntz02]. **BugsXLA** [Woo05]. **Build** [Per03]. **Building** [CG15, HMS16, Kuh08, Lum96, SSV14]. **Bundle** [Han05]. **Burg** [Tri03]. **Business** [Otn17]. **BYM** [GF15].

C [Kha15b, BS13, BFM18, EF11, Joh09, Nag21, PQM11, dVSWAL17, SCS13, WLK08, WZ17, XGY06, Zho15]. **C-** [BS13]. **C/C** [dVSWAL17]. **c060** [SHBZ14]. **ca** [NG07]. **Caching** [Pen08b]. **CADF** [Lup09]. **Calculate** [EC06, HZBB20, PV14, TFR16, VS14, ZFZ10]. **Calculating** [BL18, MHdL12]. **Calculation** [LVK$^+$11, New05, Pat00, Som07]. **Calculations** [BLR97, KSPR16, LQC$^+$12, PLZ$^+$15, Spe13]. **Calculator** [SWAF15]. **Calculus** [SH20]. **Calibrate** [Coo97]. **Call** [PLLC11]. **Calling** [But05, EC16]. **cancerclass** [BKvT$^+$14]. **Candidate** [AHvD09]. **Canonical** [GDMB08, LM18, dLM09c]. **Capabilities** [KK14]. **Capability** [SFS12]. **Capture** [BR07, YSH15]. **Capture-Recapture** [BR07, YSH15]. **CAR** [LSvdVK09]. **CARBayes** [Lee13]. **CARBayesST** [LRN18a]. **Carcinogenicity** [MLAN02]. **caret** [Kuh08]. **Carlo** [BFFN19, BM97a, CGRvD15, CGC11, DK18, GB20, Joh09, KCCG11, LT16, MQP11, She08a, She08b, SP10, War02, Zho15]. **Cartograms** [Pan18]. **Cartographic** [TKM07]. **Case** [ADH11, HSL11, JWHS16, NMB15, Str04, Unw09, ZFZ10]. **Case-Control** [HSL11, JWHS16, ZFZ10]. **Case-Mother** [NMB15]. **Catastrophe** [GvdMW09]. **Categorical** [BPP17, GT10, Mel16, PU13, Yee10]. **Categorization** [HMR+13]. **catR** [MR12, MB17]. **Causal** [AW16, HPWdL15, HIKS11, KMC+12, RJH14, SH17, SvdLN17, TK17, TYH+14]. **causaleffect** [TK17]. **Cause** [MS19]. **Cause-Specific** [MS19]. **CCA** [GDMB08]. **CDF** [DKT20, SS19]. **CDF-Quantile** [SS19]. **cdfquantreg** [SS19]. **CDM** [GRK+16]. **CDVine** [BS13]. **Cell** [BFRP13]. **cells** [MJ00]. **cem** [IKP09]. **Censored** [AB17, FS10a, Koe08, MNA+97, OL17, TGJ17]. **Censoring** [MMM12]. **Census** [Alm10]. **Central** [Phi10]. **CEoptim** [BDKL17]. **CFC** [MS19]. **cg** [PO13]. **cgam** [LM19]. **cgeostat** [dI17]. **CGIwithR** [Fir03]. **Chain** [BFFN19, Ber01, KCCG11, MQP11, She08a, She08b, VV16, War02]. **Chained** [RW11, vBGO11]. **Chains** [BMB16, Sch16]. **Chan** [Kha15b]. **Change** [EE07, JM15, MKC21, Ros15, ZLHK02]. **Change-Point** [MKC21]. **Changepoint** [KE14, KE14]. **Changing** [DN99]. **Chapman** [Gle16, Grö16, Kha16b, Rus15]. **Characteristic** [LW03]. **Characteristics** [GG16]. **Characterization** [BLY18]. **Characterize** [MTPL15]. **Chart** [EC06, ZP13]. **Charts** [But09, ECK04, EC06, Grö21, HR14]. **Chemical** [Guh07, HPK18, SSS+20]. **Chemometrics** [FR07, MvS07a]. **Chichester** [But15, Hel15, Iac15, Kha15a]. **Choice** [Aiz12, Eva14, dREP12, Sar16, Sch11, TSV20]. **Chris** [Rus15]. **Christian** [Iac15, Pos15]. **Chromatograms** [CS12]. **Cichosz** [But15]. **CircNNTSR** [FDGD16]. **CircStat** [Ber09]. **Circulant** [DB13]. **Circular** [BFRP13, Ber09, FDGD16, OCRC14, Han15]. **cirt** [FEvdL07]. **Clarify** [TWK03]. **Class** [Bea17, CDP20, HHvdWZ08, Lei04, LHS08, LL11, MD18, PC11, Sho13, WM14]. **Classes** [KR10a, PLPL17, RK14]. **Classical** [Len09a, Sch06]. **Classification** [AGG13, AWBM18, Arc10, CC08, FT11, FR07, GSD12, GZP14, HNCI18, LIL+15, Lee18, Mai09a, MSCCV05, PMD19, RBHB15, TBE+21, Whe14, ZWH17, ZD17]. **Classifiers** [MLMK12, VR14]. **classify** [Whe14]. **Cleaning** [Grö18a]. **Clear** [FR15]. **Click** [Dow16]. **ClickClust** [Mel16]. **Clickstream** [Sch16, Sch16]. **Client** [AB12]. **Climatology** [Hil15a]. **Clinical** [CKE20, Ham10, JPM19, KPH+21, LQC+12, RSW15, USHH18, WWG09, WCLS20, She11]. **CLME** [JP16]. **clogitL1** [RT14]. **Closing** [WDT+12]. **Cloud** [Mat15, MY13]. **CLUE** [Hor05]. **clues** [CQZ+10]. **clusrank** [JLH+20]. **Cluster** [BPDD08, FGEMI12, GASA15, Gre17, Hof11, IoG10, KH08, MPI18, TSN21, Hor05]. **Cluster-Randomized** [Gre17]. **Cluster-Weighted** [MPI18]. **Cluster/Multicore** [Hof11]. **Clustered** [HC05, JLH+20, ZKG20]. **Clustering** [AWBM18, AM14, BBG12, BIG17, BER+16, Bra15, CQZ+10, CKSLS12, EC16, FM18, HD10, HBF17, HPD19, HFKB12, JWHS16, KK14, KSBZ16, LH12, MHE20, MDvdV19, MSCCV05, MCM12, Mel16, MV14, Mül13, ND12, Rec10a, SR18, SHR96, TBE+21, YEL18]. **Clusters** [CGBN14, GRMMR19, GFC12]. **ClustOfVar** [CKSLS12]. **clustvarsel** [SR18]. **clValid** [BPDD08]. **CM** [Edl04]. **CM-Estimates** [Edl04]. **CMregr** [Edl04]. **Co** [BIG17, GVM16]. **Co-Clustering** [BIG17]. **Co-Occurrence** [GVM16]. **Coarse** [MBGK18]. **Coarse-Grain** [MBGK18]. **Coarsened** [IKP09]. **CoCo** [Bad01]. **Code** [Aiz12, AD15, AW16, BDMP15, BK11, Bak20, BS18, Bel11a, CKE20, CG15, Car13, Car15, Cas17, CS12, CBAA19, CO16, Cur10, DMB18, DP12, Dha10, Dry09, EC16, Esm14, FS12, FKP17, GF15, Gos14, GC18, Gre17, GVM16, HF18, Han05, Han06a, HW07, Han07a, HZBB20, Har15, HXY12, Hla16a, Hof11, Hoh18, Hug07, Jal19, Jur15, KM16, Kam08, Kla18, Kon13, LSC09, LW16, Lec14, LR20, LQC+12, LZ17, LG11, LRN18b, LV16, MF14, MB17, MHJS16, MTPL15, MBGK18, MF15, MP14, MHT07, NK06, Nag21, NAA17, OC15, Pan09, Pan18, Pap16, Pav15, PSY20, Pen08a, PZK+12, PKC+20, PV20, Phi10, RBN19, Rec10a, Rec10b, RPC15, RBB18, RGK20, Ruf09, Sac17, SWAF15, SBMG06, SGS+14, TKM07, TR14, VSV09, VS14, VYD+12, VDT14, WWG09, WZ16, WM18]. **Code** [Wei12, WEH11, Wol15, XMW10, YS12, dSJdSF14, dSdSCLC18, Gro18c]. **Coding** [dL05b]. **Coefficient** [BR17]. **Coefficient-Wise** [BR17]. **Coefficients** [TR14]. **COGARCH** [IMR17]. **Cognitive** [GRK+16, MdlT20]. **Coherent** [DM19]. **Cohort** [LVK+11, SH07, Wan13a]. **Cohorts** [BBGL17]. **coin** [HHvdWZ08]. **Coincidence** [EMU20]. **Cointegrated** [Edd09a]. **Collaboration** [BBGL17]. **Collection** [Iac15, Mil04, RG07]. **Collocation** [HRX16]. **CollocInfer** [HRX16]. **Colors** [CBAA19, ZFH+20]. **colorspace** [ZFH+20]. **Combination** [CGRvD15, YZZ+20, YEL18]. **Combinations** [JMD08]. **Combinatorics** [Han07a]. **Combine** [Wic11]. **Combining** [BMGT15, Dry09]. **Command** [HL09, Hof11, RGK20]. **Command-Line** [HL09]. **Commander** [Dow16, Fox05b, FC12]. **Comment** [LZL+05]. **Commerce** [Chr11]. **Common** [DH05, LSM+19, Woo05]. **Commonalities** [Gow16]. **Communicating** [PPC15]. **Communication** [Grö19]. **Community** [GR17b]. **Companion** [dL05a, Mat13]. **Comparative** [ADH11, ABS01, LNY+20, Coe00]. **compareGroups** [SSV14]. **Comparing** [BP15]. **Comparison** [JLZJ05, Kam08, Kla18, OL17, PO13, TM15]. **Comparisons** [Fot03, HD12, KPSH15, MVS13]. **Compensating** [CBDM07]. **Competing** [MS19, Put11, SZ11, dWFP11]. **Competing-Risk** [MS19]. **Complete** [OK14]. **Completely** [JJJ14]. **Complex** [AT13, FW18, GP12, How15a, Lum04, Mat16c, MN14, Obe14, PSS20, SvdLN17, TMKD17, dI17, Kha18a]. **Complex-Valued** [dI17]. **Complexity** [Bra15]. **Complexity-Based** [Bra15]. **Component** [Bel11b, BDdM11, Bos11, CBA20, GKD14, MW07]. **Component-Based** [CBA20]. **Components** [BdMM15, MP99, PSY20]. **Composition** [Yua07]. **Compound** [GC18]. **CompPD** [LZ15]. **CompRandFld** [PB15]. **Comprehensive** [RFKM12]. **Computation** [Bel11a, Ber01, Dem17, Der10, HD16, How15a, Hug07, KMG+13, KT10, NRG+17, PQM11, dVSWAL17, SB01, Som01, SSM21, Zei06, Kha15b, Eks10].

Computational [BFH+14, Din06, HGH05, Hil07, MAK06, MHH08, WDT+12, Edd09c, Kha18b, Mur05, dL07]. **Computationally** [BG18, EWMR20]. **Computations** [DR11, KJ14, Mat16c, WM18]. **Compute** [Jur15, LSvdVK09, LSvdV19, McB06, NGVCFLS19, Phi10, dSJdSF14]. **Computer** [DHF15, EC06, Han05, KOS20, MvB14, PPGD15, Pet97a, Pet97b, RGD12, San09, VS14, Hed99]. **Computerized** [MR12, MB17]. **Computing** [AGM07, Bai04, Cha10, CSY15, Den16, DKT20, Esm14, FBdlF12, FT08, FMM+20, Gio09, HSH07, JMS+09, KEW13, Kha03, LP13, LCK11, LZ15, Pan09, SFS12, SME+09, SDDD12, SL11, VMY02, WSZ12, Zei04, Udi00, Mat15]. **Concave** [CGS09, DR11]. **Concomitant** [GL08]. **Concurrent** [AD15]. **Conditional** [Lee13, LRN18a, Mon06, MHT07, OHD17, RT14, YSH15]. **Conditioning** [Mar06a]. **Conditions** [Yua07]. **Conducting** [KWE+17, SvdLN17, Vie10, Zha14]. **condvis** [OHD17]. **Cone** [LM14]. **coneproj** [LM14]. **Conference** [LCK11]. **Confidence** [JLZJ05, Kel07, KPSH15, LCD18, New05, SB01, WZ16, MJ00]. **Confirmatory** [Hua20, KKH10]. **Conformal** [HZS21]. **Conjugate** [Sho13]. **Connectivity** [WdVW+11]. **Consistency** [LQC+12, Whe14]. **Consistent** [FR15]. **Constant** [GL08]. **Constants** [GSW20]. **Constrained** [BFRP13, Gre17, LM14, LM19, LC10, Mug10, MHdL12, Rec10a]. **Constraint** [Hüs06, Scu17]. **Constraint-Based** [Scu17]. **Constraints** [Grö10b, JP16]. **Constructing** [CSNF18, MB15, MJ00]. **Construction** [Jon07, Kav15, TB17, Udi05, WWG09]. **Consumed** [PZK+12]. **Contact** [GW18]. **Contaminated** [PMM18]. **ContaminatedMixt** [PMM18]. **Content** [Mai08]. **Context** [NMM+21, RG07]. **Contiguity** [Rec10a]. **Contiguity-Constrained** [Rec10a]. **conting** [OK14]. **Contingency** [LS02a, MZH06, OK14, WH08]. **Continual** [SMS13]. **Continuous** [AVD21, CC08, DKT20, DOV17, Hoh18, KY10, KK14, MHM20, Mul14, PJSPC17, SD17, VR14, VGDM+18, Wan13b]. **Contrast** [WS11]. **Contrast-Enhanced** [WS11]. **Control** [ADH11, But09, ECK04, EC06, HSL11, JWHS16, MG09, NMB15, RD21, TKM15, ZFZ10, ZP13, dSdSCLC18]. **Control-Mother** [NMB15]. **Controlled** [HZSW10]. **Controlling** [NGVCFLS19]. **Controls** [BCAB07]. **Convenient** [SDJ20]. **Convergence** [Smi07]. **Conversion** [Lei13]. **Converting** [Wan13a]. **Convex** [FNB20, KM14, PLRC10, Som98]. **Convolution** [RK14]. **convoSPAT** [RC17]. **cooccur** [GVM16]. **Cookbook** [How11]. **Coordinate** [FHT10, GRS12, OWA20, SFHT11]. **Copula** [BER+16, MV17, Nag18, NAA17, WMR16, KY10, Yan07]. **Copula-Based** [NAA17]. **CopulaDTA** [NAA17]. **Copulae** [OR14]. **copulaedas** [GFS14]. **Copulas** [BS13, GFS14, GHH20, HD18, HM11, Yan07]. **Copy** [SIR+11]. **Core** [Hil07]. **corr2D** [GFPB19]. **Corrected** [BK11, CCF19, HS18]. **Correlated** [AS04, AD15, CNLR19, KM16, KS10, KMM+17, RMG12]. **Correlation** [BKT14, GFPB19, GDMB08, Gos14, HM18]. **Correlations**

[LH12]. **Correspondence** [BM97b, LSvdVK09, LSvdV19, NG07, dLM09c, dL05b]. **Cost** [Bai20]. **Cost-Effectiveness** [Bai20]. **costat** [CN13]. **Costationarity** [CN13]. **Count** [GF15, HD18, JD15, KM16, KBMB19, LFF17, SSH16, SF16, ZKJ08]. **Counterfactuals** [SKZ05]. **Countr** [KBMB19]. **Counts** [Cam12, DS15, MJ00]. **Coupon** [FH10]. **Course** [Hel17, Wic08a]. **Courses** [Dry09]. **COVAR** [Pet97a]. **Covariable** [KK15]. **Covariance** [CDP20, Mon06, PP17, Pet97a, RC17, Zei04, ZK12]. **Covariances** [ZKG20]. **Covariate** [Gre17, HPWdL15, HXY12, KMG+13]. **Covariate-Constrained** [Gre17]. **Covariates** [VKVC15]. **covatest** [CDP20]. **Coverage** [TKM17]. **CovSel** [HPWdL15]. **Cox** [CG15, DPSH18, Gan15, SHBZ14, SFHT11, TDRD13, TDRD15, TR14, WZQW20]. **coxphw** [DPSH18]. **COZIGAM** [LC10]. **cpm** [Ros15]. **Cramér** [XGY06]. **Crawley** [Hel15]. **CRC** [Gle16, Grö15a, Grö16, Kha16b, Zei15]. **Creating** [CBAA19, Grö14, HL09, Ver12, Xie13]. **Creation** [NRD16]. **credsubs** [SFC20]. **Criteria** [Day01, Esm14, Gos14]. **Criterion** [KH13]. **Critical** [McB06, SB01, Som07, VS14]. **crlmm** [SIR+11]. **crmPack** [BYPJ19]. **Cross** [BDKL17, ESO16, KO06, WWG09]. **Cross-Entropy** [BDKL17]. **Cross-Language** [ESO16]. **Cross-Over** [WWG09]. **Cross-Validation** [KO06]. **Csárdi** [Nun15]. **cts** [Wan13b]. **ctsem** [DOV17]. **CUDA** [SM12]. **cudaBayesreg** [dS11]. **Cumulative** [BH07, BH08a, BH08b, Mey13]. **CURAND** [SM12]. **Cursi** [How15b]. **Curve** [Das06, FH10, LW03, Wil14a]. **Curves** [KHLF+10, MIG12, OL17, Sac17, TFR16, WZ16]. **Cusp** [GvdMW09, GvdMW09]. **Customizable** [MH09]. **cutpointr** [TH21]. **Cutpoints** [LRRÁCSGS14, TH21]. **CVTresh** [KO06]. **CVXR** [FNB20]. **Cycling** [FK17].

D [Han15, Nun15, BS13, EN11, FF14, GGK10, GKSU15, LPLPD14, WG00]. **D-STEM** [FF14]. **D-Vine** [BS13]. **DAD** [RG07]. **DAKS** [ÜS10]. **Dale** [MH05]. **Daniel** [Zei16]. **Darling** [MM04]. **DATA** [MT14, Alm10, ÁBZ17, ÁBZ20, AD15, AB17, BL14, Bai04, Bak20, BFRP13, Bar96, BPP17, BdMM08, Ber01, BBG12, BK17, BGRR15, BDdM11, Bow10, Boy05, BW01, BWMBC21, BKvT+14, BEHB17, But08a, CB17, CBDM07, CGBN14, CCH15, CYK+09, CBHK21, CNLR19, CG10, CM08, Dow17, Dow19, DM19, Duo07, ESO16, Ell09, ECW+12, FS10a, FBdlF12, Fel12, Fer11, FDGD16, FBG15, FM18, FK17, Fri12, Fri06, Fuj17, GHR18, GASA15, GP12, GF15, GKZ16, GGK10, GR17a, GCA12, GU07, Gos11, GD21, Grö15a, Grö18a, Gro08, HD10, HBF17, HD18, HHB+08b, HK20, Har08, HW20, HM18, Hel17, HH19, HRBP15, HC05, HHJCRB21, HKB11, HCW12, HJS16, IP08, Iac15, Iac17, Jac11, Jal19, JM15, JLH+20, JD15, JH16, KM16, KEW13, Kha18a, KBMB19, KS10, KZ03]. **Data** [KSS+07, KK14, KT10, Lal16, Lan14, LDHM21, LRGTA12, LMO+19, Lei10, LSPvdL17, LM03, LGF+18, Lor17, LP17, MBGK18, MNA+97, MH05, MSCCV05, MMRP11, MCM12, MD18, MP12, MdUÁC10, MN14, LMB+07, Mun14, Mur03, NGBK12, NL12, NOT08, NRD16, Nun15, OL17, PPGRMB21, PP17, Pav16, Peb12, Pen08a, PE19, PV14, PPC15, PU13, QY19, Riz10, Riz16, RD21, RMG12, RVCG19, San06, SGK03, SH14, Sar09, SP14, Sav16, SZ11, Sch16, She11, SCS13, SYC08, SF16, SF19, SvdLN17, Sól09, Spa06, Su07, TDRD15, TKM15, TMKD17, The02, TD07, ÜS10, VM09a, VM10, Ver18, VS14, Vin17, VYD+12, VGDM+18, WGSL12, WKL11, Wan13a, WdVW+11, WDM+11, WST11, Wic07, Wic10, WG10, Wic11, WCHB11, Wic14, WBEE19, Wol12, WZ17, Xu06, XHW20, YR19, Yee10, YSH15]. **Data** [ZKJ08, Zei15, ZCI+16, ZQS16, dS11, dL05b, dSdSCLC18, vdLdJ21, vdL21, How15a, Mai09c, Ach09, Arm19, But15, Dem18a, Grö17, Grö21, Hel20, Hil09a, How15a, Kha20, Mai08, San10a, Wic08b]. **Data-Driven** [LDHM21, WBEE19, How15a]. **Database** [MBK18]. **Database-Inspired** [MBK18]. **Databases** [NRG+17]. **datacollection.com/** [Iac15]. **DataGraph** [Mac12]. **dataMaid** [PE19]. **Datasets** [Mur06, RPC15, ZMC21]. **Dates** [GW11]. **DATforDCEMRI** [Fer11]. **dawai** [CFSR15]. **Dayal** [Hof15]. **dbEmpLikeGOF** [MVS13]. **DBKGrad** [MP14]. **dbmss** [MTPL15]. **dbscan** [HPD19]. **DCE** [Fer11]. **DCE-MRI** [Fer11]. **DClusterm** [GRMMR19]. **ddalpha** [PMD19]. **deal** [BD03]. **Dealing** [Kas16, Pap16]. **Death** [BdUÁ18, MMRP11, TGJ17, WCLS20]. **DeCo** [CGRvD15]. **Decomposition** [CBA20, DMB18, Lei10, LBW18, LS02b]. **Decompositions** [EVBK19]. **decon** [WW11]. **Deconvolution** [Fer11, NE20, RS07, WW11]. **deconvolveR** [NE20]. **Deducer** [Fel12]. **Deepayan** [Gro08]. **Degradation** [CP12]. **Dehli** [Hof15]. **Delay** [JvdBP07]. **Delta** [MF14]. **deltaPlotR** [MF14]. **demogR** [Jon07]. **Demographic** [Alm10, Jon07, SM07]. **Demonstrating** [Xie13]. **Demonstration** [CCD09, NRG+17]. **Dendrograms** [SHFB17]. **Densities** [MW12, Nag18]. **Density** [AM14, CGRvD15, CGS09, DHM11, DR11, Duo07, DP03, HPD19, HS18, MW12, Pav15, VDT14, Wol12]. **Density-Based** [HPD19]. **DEoptim** [MAG+11]. **Dependence** [BDMP15, BS13, CFHBK11]. **Dependent** [KO06]. **Deployment** [VFV13]. **depmixS4** [VS10]. **Depth** [LZ15, PMD19]. **Depth-Based** [PMD19]. **Derivative** [WM18]. **Derivatives** [BRC98, MS11]. **Deriving** [Arc10]. **Descent** [FHT10, GRS12, SFHT11]. **Description** [CA17]. **Descriptive** [Dha10, Ruf09]. **Design** [BG21, BPB09, CKE20, DHF15, Esm14, GG16, Gra07, Grö11, HSL11, HR14, HMM21, HZSW10, LVK+11, LW03, MvB14, OWA20, WWG09, Wol15, ZP13, Grö10a, Len09a]. **Design-Based** [HMM21]. **Designed** [FBF14]. **Designing** [JPM19, RSW15, YZZ+20]. **Designs** [BYPJ19, CBHK21, DR20, FS13, FKP17, Fri10, Gre17, Grö14, HWY18, IM05, Kao09, KPH+21, Law08, LSM+19, NMB15, SlRC16, SMS13, TSV20, Was15, YZZ+20]. **deSolve** [SPS10]. **Detect** [ESKHB20]. **Detecting** [CGC11, ZPZW21]. **Detection** [GRMMR19, McB06, RG07, Ros15, SSH16]. **Determining** [CGBN14]. **Deterministic** [MRC15]. **Developed** [RG07]. **Developer** [BG18]. **Developer-Friendly** [BG18]. **Developing** [Gen06]. **Development** [BKvT+14, RFKM12]. **Developments** [JLZJ05, vdA12]. **deviances**

[Can04a]. **deviation** [SM12]. **Devices** [FK17]. **DFIT** [Cer17]. **dglars** [AMW14]. **Diagnose** [HHB+08c]. **Diagnosis** [GRK+16, MdlT20, TB17]. **Diagnostic** [Bar96, BKvT+14, GR18b, LRRÁCSGS14, LX12, Ngu07, NAA17, PJSPC17, RG07, Ver18]. **Diagnostics** [LH14, SGHY11]. **Diagonal** [KN05]. **Diagonalization** [MNT17]. **Diagram** [DD07]. **Diagrams** [BDMP15, HF18]. **DiagTest3Grp** [LX12]. **Diallelic** [Gra15]. **DiceDesign** [DHF15]. **DiceEval** [DHF15]. **DiceKriging** [RGD12]. **DiceOptim** [RGD12]. **Dichotomous** [WB08]. **DICOM** [WST11]. **Difference** [KM08, ZPZW21]. **Differences** [Gow16, PKC+20, WZ16]. **Differential** [BFH+14, Cer17, CGC11, GB20, HRX16, MF14, MAG+11, SPS10]. **Differentiation** [KNB+16]. **Difficult** [MT02]. **Difficult-to-pass** [MT02]. **diffIRT** [MTvdM15]. **Diffusion** [MTvdM15, PT09, PT11, SKS15, WS11]. **Diffusion-Weighted** [PT11, WS11]. **Diffusive** [BFM18]. **Digital** [PT07]. **Dimension** [AR14, BM12, CFT11, MDvdV19, NMM+21, Wei02]. **Dimensional** [AEL10, BBG12, BKvT+14, CNLR19, Coo97, GFPB19, HW20, HPK18, HCW12, ND12, Pat16, SF18, VG09, WZ17, BW01, NG07, Pen03]. **Direct** [WZ16]. **Directional** [KGP+19]. **Dirichlet** [Han10, LHA+15]. **Dirk** [Kha15b, Kha15a]. **Disaggregated** [KPRP+19, RD21]. **Disciplined** [FNB20]. **Disclosure** [TKM15]. **Discovering** [LAF+17, Xu06]. **Discovery** [DK18, Lal16]. **Discrete** [DKT20, KK14, MTW04, MP14, Sar16, SD17, TSV20, USA19]. **Discrete-Event** [USA19]. **Discretized** [Su07]. **Discriminant** [BBG12, CFSR15, Duo07, TBE+21]. **Disease** [AVD21, BVE+15, GRMMR19, JGM18, JWHS16, MGFA+20, WBEE19]. **Disequilibria** [SBMG06]. **Dispersed** [SF19]. **Display** [DN99, Hel17, SBMG06]. **Displaying** [FT08]. **Displays** [Fox03, FH09, Fri06, NL12]. **Dissimilarity** [GU07]. **Dissimilarity-based** [GU07]. **Distance** [MRT+19, QY19, SH09]. **Distance-Aided** [SH09]. **Distance-Based** [QY19]. **Distances** [vE17]. **Distributed** [Gas11, LP13, Mug10, NRG+17, TFH12]. **Distributing** [Pen08b]. **Distribution** [AH12, AWBM18, AHvD09, BH07, BH08a, BH08b, Car15, DKT20, DP03, GFS14, Han10, MTW03, MM04, Mar04, McB06, Mey13, MR05, MMM12, Phi10, dREP12, Ram00, SBL+10, SL11, TBE+21, ZQS16, ZPZW21]. **Distributions** [AHvD09, BS18, BMvS+07, DMD15, Dem18b, Den16, Gil15, HG14, Kam08, KY10, LM13, LM18, LHS08, MNA+97, NK06, NR16, Pan09, PCL13, PMM18, dVSWAL17, Su07, ZFZ10]. **distrMod** [KR10a]. **Divergence** [LR20]. **Diverging** [HR14]. **Diverse** [FR15]. **Diversity** [MH15]. **Dixon** [VS14]. **DixonTest.CriticalValues** [VS14]. **dlmap** [HSG12]. **dlnm** [Gas11]. **DNest4** [BFM18]. **Document** [Dry09]. **Documentation** [HWPG13]. **Documenting** [PE19]. **Documents** [McN14, Mor18]. **DoE.base** [Grö18b]. **Dominic** [Iac15]. **Donors** [SH09]. **Dose** [BPB09, BYPJ19, CO16, HZSW10, MAK06, SMS13, WB08, WEH11, YZZ+20]. **Dose-Finding** [BPB09, SMS13, YZZ+20]. **Dose-related** [MAK06].

Dose-Response [CO16, WEH11]. **dosresmeta** [CO16]. **Douglas** [Mat16a]. **Down** [Som12]. **downscale** [MBGK18]. **Downscaling** [MBGK18]. **DPB** [LP17]. **DPpackage** [JHQ+11]. **Drift** [Han07b]. **Driven** [DS15, LDHM21, WBEE19, How15a]. **Drug** [BN10, YZZ+20]. **Drug-Combination** [YZZ+20]. **dsarkar.fhcrc.org** [Gro08]. **DTDA** [MdUÁC10]. **dti** [PT09, PT11]. **DTR** [TM15]. **DTRreg** [WMS17]. **dtw** [Gio09]. **dtwSat** [MCAP19]. **Dual** [LM14]. **Duality** [DD07]. **Dummies** [SGS+14, Edd12a]. **Dumont** [Gle16]. **Dynamic** [BM97b, CN18, CS12, DN99, Gio09, JvdBP07, LP17, MGFA+20, MCAP19, McN14, Oom13, PSY20, Pet10, TM15, VM09a, WMS17, WS11]. **dynamicnetwork** [BdMM08].

e-Commerce [Chr11]. **E-Learning** [ZUL14]. **Early** [Tak16]. **Earthquake** [CA17, Jal19]. **Ease** [LT16]. **Easy** [Bro15, CdM10, GW11, HM16, SMDS11]. **ebalance** [HX13]. **EbayesThresh** [JS05]. **eBook** [Gle16, Zei16]. **eco** [ILS11]. **ecodist** [GU07]. **Ecological** [AB12, GU07, Han07b, ILS11, Kin04, KP07, MHE20, PR07, Sól09]. **Ecologists** [DD07]. **Ecology** [Chr09, KP07, Soe10, Hil10a]. **Econometric** [Zei04]. **Econometrics** [BP15, CM08, Edd09b, HR08, Yal10, ZK08]. **Economic** [Bai20, ZP13]. **Economics** [CN18, Hof15]. **ecp** [JM15]. **ed** [Hel18]. **edcc** [ZP13]. **Edge** [HL07]. **Edges** [HD16]. **Edition** [CH11, Dem17, DN17, Dow19, Edd09a, GR17a, GR18a, Grö15a, Hel15, Hel16b, Hel17, Kha17a, Kha18c, Kha20, KN17, Lor18, Mai09c, Pav20, Ros17, San10a, SCD07, VM09b, Wil09, dL05c, Fox05a, Kha16c]. **eDMA** [CN18]. **Eduardo** [How15b]. **Educational** [CCD09]. **Effect** [CB21, CLL17, Fox03, FH09, FW18, Kel07, SvdLN17, SLMV17, Cha03]. **Effectiveness** [Bai20, LNY+20]. **Effects** [AW16, BMBW15, Bea17, Chr09, Gan15, HPWdL15, HN13, JP16, KCCG11, Kol16, KSPR16, KBC17, Lec14, LQC+12, LG11, Mug10, Röv20, SP14, TKM17, TK17, VDT14, WLH+18, WM18, ZLC18, Hed99, FH09]. **Efficient** [AHvD09, BG18, BGH+17, CGRvD15, EWMR20, ESO16, New05, RBN19, SSM21, TB17, Lan17]. **Efficiently** [HZBB20]. **Elastic** [SHBZ14]. **Elastic-Net** [SHBZ14]. **Elea** [Rus15]. **Electoral** [OO11]. **Elegant** [BE13, GR17a, VM10]. **Elimination** [JMD08]. **Ellipses** [Fri06]. **Ellipsoidal** [Som01]. **Elliptic** [Han06b, Han06b]. **elrm** [ZMG07]. **Elsner** [Hil15a]. **EM-Like** [DV20]. **Embarrassingly** [Mat16c]. **Embarrassingly-Parallel** [Mat16c]. **Embedded** [BDdM11]. **Embedding** [DB13]. **emdi** [KPRP+19]. **emil** [BG18]. **EMMIX** [MP99]. **EMMIXcskew** [LM18]. **EMMIXuskew** [LM13]. **Emphasis** [FS10b]. **Empirical** [ASB11, ADN15, Cha10, JS05, KG17, NE20]. **Employing** [ZF15]. **Emulator** [Han12]. **Enabled** [FK17]. **Enables** [Wei12]. **End** [HM16, WDT+12]. **End-to-End** [HM16]. **End-Users** [WDT+12]. **Energy** [PZK+12]. **Enforcing** [Oom13]. **Enhanced** [WS11]. **Enhancement** [Dry09]. **Enhancing** [BBGL17]. **Enjoy** [Yan07]. **Ensembles** [Fok20, IoG10, Hor05].

entropart [MH15]. **Entropy** [BDKL17, HX13, MVS13, VdL09]. **Enumerative** [Han07a]. **Envelope** [CSY15]. **Envelopment** [ÁBZ20]. **Environment** [BM97b, Cha12, HGH05, Mug10, RFKM12, SDDD12, SHR96, Wei12, Udi00]. **Environmental** [FF14, Yua07, dL09c]. **Environments** [BLM$^+$15]. **envlp** [CSY15]. **Epidemic** [MHH17]. **Epidemics** [GW18]. **Epidemiologic** [Hil09b]. **Epidemiological** [MJGM10, PC11]. **Epidemiology** [dL09c]. **EpiILMCT** [AVD21]. **EpiModel** [JGM18]. **epinet** [GW18]. **Episodically** [PZK$^+$12]. **Equality** [Grö10b, MHdL12]. **equate** [Alb16]. **equateIRT** [Bat15]. **Equating** [Alb16, ABW13, Bat15, Gon14]. **Equation** [DOV17, HRX16, Hua20, Lum96, MR18, ML12, Obe14, Ros12, UNBK17]. **Equations** [BFH$^+$14, GB20, HHY06, HH07b, RS08, RW11, SPS10, Tou15, VG09, vBGO11]. **Equivalent** [LAF$^+$17]. **ER-fMRI** [Kao09]. **ERA** [LV16]. **ERG** [YFK$^+$15]. **ergm** [HHB$^+$08c]. **ergm.graphlets** [YFK$^+$15]. **ergm.userterms** [HGH13]. **Eric** [Nun15]. **eRm** [MH07]. **Error** [HXY12, Mil17, MIG12, PZK$^+$12, WW11]. **Errors** [BK11, Bel11b, WM18]. **Escalation** [BYPJ19]. **Essentials** [Pos15]. **Estimate** [AMW14, PZK$^+$12]. **Estimates** [Edl04, Gan15]. **Estimating** [BP19a, BKT14, Bra17, Das06, DBBD07, Fie12, GSW20, HPWdL15, HHY06, HW20, HH07b, KS14, KPRP$^+$19, LW03, Lum96, MMR20, RS08, SM07, Tou15, You10]. **Estimation** [AG19, AMYR16, AT13, AW16, ALV07, AMMRP14, AM14, BdUÁ18, BP15, CCF19, CA17, CLL17, Cro20, CGS09, Cul11, DHM11, DBZ$^+$11, DR11, DSH16, Duo07, FDB12, FH10, Fot03, GFS14, GvdL12, HWM16, HS18, Joh07, KL14, Kol16, KSP15, LCD18, LSPvdL17, dUJ13, MMB15, MW12, MGH18, MLAN02, MMM12, Nag18, NE20, Nor17, OC15, PJSPC17, PSS20, PLPL17, dREP12, RC17, RMG12, SBL$^+$10, SH20, Sav16, SIR$^+$11, SVMMRP17, She08a, She10, Sho13, SvdLN17, TSN21, TM15, TH21, TR14, VV16, WMS17, WW11, Wan11, WB08, Wol12, XM14]. **Estimations** [HMM21]. **Estimator** [Pav15, SP05]. **Estimators** [ABS01, CSY15, Jur15, Mil17, Zei04, Zei06]. **ETAS** [Jal19]. **etasFLP** [CA17]. **etm** [ASB11]. **EUR** [Hof15]. **Evaluate** [BH07, BH08a, BH08b, DM19]. **Evaluating** [GG16, JKL19, MTW03, MM04, Mar04, MIG12, Ngu07, SKZ05]. **Evaluation** [Bai20, Car15, HSL11, Mey13, Som98, WEH11]. **Evaluations** [TKM17]. **Event** [CBHK21, GHR18, KMM$^+$17, Riz10, Riz16, RSW15, USA19]. **Events** [KZ03, KMM$^+$17, MMM12, RBN19]. **EViews** [Cas17, Van11]. **evmix** [HS18]. **Evolution** [MAG$^+$11, NdSL16]. **Evolutionary** [CBA20, GZP14]. **evtree** [GZP14]. **Exact** [BM12, Caf06, FS10a, HGK$^+$20, IKP09, Kha03, MHT07, WH08, ZMG07]. **Exact-Like** [ZMG07]. **exactLoglinTest** [Caf06]. **Example** [Eva11, San10a]. **Example-Based** [San10a]. **Examples** [Fri06, Hel17, Grö17, Sar09]. **Exams** [GZ09, ZUL14]. **Excel** [Web16, But05, But09, Hla16a, Kla18, KR09, Web16]. **Excel©** [LS02b]. **Excess** [CB21]. **Exchange** [OWA20]. **Exclusion** [AT13]. **Excursion** [BL18]. **excursions** [BL18]. **Execution** [SR07a]. **Exercises** [Kha16c]. **Expanded** [HO20]. **Expansion** [MR18]. **Expansions** [LP13].

Experimental [Gröl1, IM05, Kao09, SlRC16, Vig16]. **Experimenting** [KvEPK20]. **Experiments** [Aiz12, DHF15, FO15, FBF14, Grö10a, Grö18b, LW16, Len09a, MvB14, MHT07, NGBK12, OWA20, RGD12, SBL04, TP11, TSV20]. **Explained** [But15]. **explorase** [LCL+08]. **Exploration** [SD13, Vig16]. **Exploratory** [LRGTA12, LCL+08, SGS+14, Eva11]. **Explore** [HCW12]. **Exploring** [BW01, Cal07, CCH15, GLC+15, Gra15, NOT08, PPC15, WCHB11]. **Exponential** [CF14, HHB+08c, LCD18, MR05, MHH08, SL18]. **Exponential-Family** [HHB+08c, MHH08, SL18]. **Exposure** [JWHS16]. **Expression** [Boy05]. **Extend** [GDMB08]. **Extended** [GKZ12, LV16, MH07, PLPL17, SHBZ14, ZC10]. **Extending** [CNLR19, FC12, HGH13, San07]. **Extensible** [HD10, HBF17, HWPG13, TSH20]. **Extension** [YEL18]. **Extensions** [BGRR15, Chr09, FH09, GKSU15]. **Extensive** [KS14]. **extracat** [PU13]. **Extreme** [DGJ+18, GK16, Hla16b, HS18, McB06]. **ExtremeBounds** [Hla16b]. **extremefit** [DGJ+18]. **extRemes** [GK16]. **Eyes** [Coo97].

F [Hug07]. **F-to-z** [Hug07]. **Facilities** [Fir03]. **FactoMineR** [LJH08]. **Factor** [BP12, CFHBK11, DM19, DSH16, LS02a, NGVCFLS19, PKC+20]. **Factorial** [FS13, FKP17, Grö14, Grö18b, NGBK12]. **Factorials** [LSC09]. **Factors** [EC06, MHdL12]. **Failure** [CKY14, HXY12]. **FamEvent** [CBHK21]. **Families** [NR16]. **Family** [ALV07, CBHK21, DP12, HHB+08c, MHH08, PG15, SL18]. **FAMT** [CFHBK11]. **Far** [RBB18]. **Fast** [BE13, Bel11a, DCS20, HPD19, HWM16, LH12, MTW04, Mül13, Pat00, PG15, RS07, dVSWAL17, SLF14, VW13, WZ17]. **fastcluster** [Mül13]. **Faster** [GTDT20]. **fastnet** [DCS20]. **fda.usc** [FBdlF12]. **FDboost** [BRG20]. **FDR** [Som07]. **Feature** [CNLR19, DK18, KR10b, LAF+17, Meu13, MD18]. **fechner** [ÜKD09]. **Fechnerian** [ÜKD09]. **Feit** [Rus15]. **Ferns** [Kur14]. **Fertility** [SAR11]. **Festschrift** [MM16]. **FFT** [RK14]. **fgui** [HL09]. **FHtest** [OL17]. **FIAR** [RR11]. **Field** [Pat16]. **Fields** [BILL07, BILL10, DB13, FS10b, PB15, SMM+15, dI17]. **Fieller** [Kha16b]. **Figure** [GC18]. **Files** [Dry09]. **Filter** [Wan13b]. **Filtering** [KGP+19, Tus11, VYD+12]. **Finance** [CN18, Mül16]. **Financial** [SCD07, Spe13]. **Finding** [BPB09, HWY18, SMS13, Was15, YZZ+20, Edl04]. **Fine** [MBGK18]. **Fine-Grain** [MBGK18]. **Finite** [GL08, Lei04, PCL13]. **FinMetrics** [Ziv11]. **First** [Wic08a]. **Fisher** [HG14, Kha03]. **Fit** [Bar96, FW18, GHR18, HHB+08c, LR20, Mar05, MVS13, Pav15, PV14, TMN16, ZA17, LT16]. **fitdistrplus** [DMD15]. **Fitness** [PSS20]. **Fitting** [BS18, BMBW15, CAA15, CB21, CKY14, DMD15, Dem18b, FC11, Fok20, FS20, Gil15, GvdMW09, GH11, HHV20, HG14, IV05, Jal19, KHLF+10, KV13, KH08, LM13, LM18, MRC15, McI16, MNA+97, MP99, MH05, MTvdM15, PZK+12, PCL13, PMM18, Riz16, Su07, TGJ17, UNBK17, Van11, ZHZ20]. **Fixed** [AH08, CC11, DHM11, Wol15, ZF15]. **Fixed-Size** [Wol15].

flexCWM [MPI18]. **Flexible** [AHvD09, CB21, FSLZ12, KBMB19, MPI18, SlRC16, SLMV17, VDT14, WK18, ZUL14, ZF15, Bar18, Dem18a, Kha20]. **FlexMix** [GL08, Lei04]. **flexsurv** [Jac16]. **FLIM** [LMB$^+$07]. **Fluorescence** [LMB$^+$07]. **FluxSimulator** [BMvS$^+$07]. **FME** [SP10]. **fmixed** [LG11]. **fMRI** [BDdM11, Kao09, MvB14, WdVW$^+$11, WDM$^+$11, dS11, TP11]. **Focus** [DLC06]. **Follow** [DR20, PC11]. **Follow-Up** [DR20, PC11]. **Following** [LFF17]. **Food** [WEH11]. **Food-Safety** [WEH11]. **Foods** [PZK$^+$12]. **forecast** [HK08]. **Forecasting** [HK08, Yaf07]. **Forecasts** [JKL19]. **Forest** [CNLR19, HMM21]. **forestinventory** [HMM21]. **Forests** [CNLR19, MIG12, WZ17, ZWH17]. **Form** [KS14]. **Format** [Dry09, Wee10]. **forms** [Fir03]. **Formulas** [ZC10]. **Formulating** [DLC06]. **FORTRAN** [Gen06, dL12, Mil04, SB01, Bel11b, KKH10, KH13, MHdL12, Som98]. **Forward** [RPC15]. **Foundations** [Lal16]. **Fourier** [AG19, Pac07]. **Fourier-Based** [AG19]. **Fourth** [Fox05a]. **FracSim** [DC05]. **Fraction** [LVK$^+$11]. **Fractional** [BILL07, BILL10, FS13, Grö14, Coe00]. **Frailty** [BP19a, MGH18, MRL12, RMG12]. **frailtyEM** [BP19a]. **frailtypack** [RMG12]. **frailtySurv** [MGH18]. **Frames** [HHJCRB21]. **Framework** [ATF10, BFH$^+$14, CBA20, Cer17, DR20, GTDT20, HBF17, HMS16, Kle16, Lei04, MdL10, MPI18, MZH06, Nor17, NAA17, PR07, TF09, WdVW$^+$11]. **FRB** [VW13]. **frbs** [RBHB15]. **Free** [BFC02, IP08]. **French** [HJS16]. **Frequencies** [Meu13]. **Frequency** [GKZ16, TKM17]. **Frequent** [HGH05]. **FrF2** [Grö14]. **Friendly** [BG18, Nag21, SGS$^+$14]. **FRK** [ZMC21]. **Frontier** [HB17]. **Function** [BRC98, DBZ$^+$11, MMM12, Pat00, PZK$^+$12, dREP12, SBMG06, VSV09, VG09, PG15]. **Functional** [Ach09, BRG20, CG10, FBdlF12, HK20, LG11, RR11, Sav16, SCS13, TP11, YR19, YEL18, Bow10]. **Functionalities** [BMGT15]. **Functionality** [Guh07]. **Functioning** [Cer17, CGC11, MF14]. **Functions** [Aiz12, AW16, BCAB07, BH07, BH08a, BH08b, CDP20, Han06b, LH12, LQC$^+$12, MS19, McB06, Pac07, Phi10, RC17, Ruf09, TKM07, WEH11]. **funcy** [YEL18]. **Fundamental** [LM18]. **Fusion** [SYC08]. **Future** [Tie05, ZK08]. **Fuzzy** [CNLR19, RBHB15, VV16]. **FuzzyStatProb** [VV16].

GA [Scr13]. **Gábor** [Nun15]. **gamboostLSS** [HMS16]. **Games** [KS14]. **GAMLSS** [Bar18, HMS16, SR07b]. **Gamma** [MT98, XTL13]. **Gap** [WDT$^+$12, Zha07]. **GARCH** [ABB$^+$19]. **GAS** [ABC19]. **Gauss** [Das06]. **Gaussian** [TDRD13, BKT14, BER$^+$16, BP19b, BG21, BILL07, BILL10, DB13, EC16, FS10b, Gra07, GT10, Gra16, HD18, HL07, JCPL19, LHS08, MRC15, MV17, Pac07, PLZ$^+$15, PT11, SR18, SBMD14, TKM17, TDRD15]. **Gaussian-Process-Based** [BP19b]. **GBP** [Han15, Iac15, Nun15]. **gcKrig** [HD18]. **GDINA** [MdlT20]. **gdistance** [vE17]. **gdpc** [PSY20]. **geepack** [HHY06]. **GEEQBOX** [RS08]. **geex** [SH20]. **GemIdent** [HKL09]. **gems** [BVE$^+$15]. **Gene** [Boy05, ESKHB20, GD21, Sab07]. **Gene-Based** [ESKHB20]. **Gene-Gene** [ESKHB20, GD21]. **Genealogical** [RVCG19]. **GeneGeneInteR** [ESKHB20]. **General** [CL13, FKP17, Gre17, Kur14, Lei04, LHS08, MdL10, MGH18, PRS18, RK14, She10]. **General-Purpose** [Kur14]. **General-to-Specific** [PRS18]. **Generalised** [Fox03, Lum96]. **Generalization** [Han10, YEL18]. **Generalizations** [AH12]. **Generalized** [AMYR16, ABC19, Arm19, AMW14, BdMM15, CdM10, Can04a, Cha10, Dun99, FHT10, GHR18, Had10, HHY06, HC05, ICL16, KLNN20, KH13, LM19, LFF17, LC10, McI16, MH09, ML11, PSY20, Ram00, RS08, Sch11, SHBZ14, SR07b, Su07, TBE+21, Tou15, VDT14, dSJdSF14, GR18a, Mai06]. **Generalizing** [PLRC10]. **Generate** [Ruf09]. **Generating** [Cha16, CBHK21, Fuj17, GD21, KM16, LS02a, MT98, TSV20, WDM+11, MT00]. **Generation** [AD15, Cha03, Dry09, FS13, GZ09, HWPG13, MR12, MTW04, VYD+12, YS12, ZUL14]. **Generator** [PSW07, SM12]. **Generators** [Bre04, Vig16, XTL13, PL05, SLF14]. **Genetic** [Gra15, JFDB15, Jur15, MF15, MS11, Scr13, TB17, WZL20, Wol15, ZFZ10, Zha07]. **Genetics** [SL09]. **Genotype** [EC16]. **Genotyping** [SIR+11]. **geoCount** [JD15]. **Geographical** [Jos05, Kav15, vE17]. **Geographically** [GLC+15]. **Geospatial** [PPC15]. **Geostatistical** [HD18, JD15, SYC08]. **Geostatistics** [Bro15, Gum07]. **GeoXp** [LRGTA12]. **GETS** [PRS18]. **Getting** [HHB08a]. **GFD** [FKP17]. **ggenealogy** [RVCG19]. **ggm** [Mar06a]. **ggmcmc** [iM16]. **GGobi** [VM09a]. **ggplot2** [HF18, GR17a, VM10]. **ggtern** [HF18]. **Gibbs** [BTMB13, Ntz02, Woo16]. **Gifi** [dLM09a, vdHvB16]. **Gillespie** [PK08]. **GillespieSSA** [PK08]. **glarma** [DS15]. **GLDEX** [Su07]. **GLIMMPSE** [KMG+13]. **GLMM** [DP12, XM14]. **glmulti** [CdM10]. **Global** [DSH16, HMM21, MAG+11, Mul14]. **global.oup.com** [How15a]. **Globally** [GZP14]. **Glotaran** [SLS+12]. **GLUMIP** [KCM08]. **GMCM** [BER+16]. **gmnl** [SD17]. **gMWT** [FO15]. **GNAR** [KLNN20]. **GNU** [Bak20]. **GoFKernel** [Pav15]. **Gold** [Ngu07]. **Gompertz** [Das06, MNA+97]. **Goodness** [LT16, LR20, Mar05, MVS13, Pav15]. **Goodness-of-Fit** [LR20, Mar05, MVS13, Pav15, LT16]. **GPareto** [BP19b]. **GPfit** [MRC15]. **GPGPU** [SM12]. **GPS** [FK17]. **GPS-Enabled** [FK17]. **Gradient** [BFFN19, BMR14]. **Graduation** [MP14]. **Graeme** [Han15]. **Grain** [MBGK18, Høj12]. **Gram** [HMR+13]. **gramEvol** [NdSL16]. **Grammar** [Cox07]. **Grammatical** [NdSL16]. **Graph** [Cul11, LCD18, MHH08, SL18]. **Graph-Based** [Cul11]. **gRapHD** [AEL10]. **Graphical** [AEL10, AB12, CCH15, CCD09, DH05, Dun99, Fox05b, HW20, HL09, Høj04, HL07, Høj12, KMC+12, LL10, LSvdV19, LSM+19, Mar06a, MW19, RFKM12, SlRC16, SBMG06, SLS+12, TMW18, VML12, WLH+18, Zei15]. **Graphics** [GR17a, HSH07, LBC+16, LR15b, Mur09, MG09, NG07, NL12, Pav20, San10a, VM09a, VM10, CH11, Grö15a, Bul06, Cox07, Grö21, Mur06, WG10]. **graphicsQC** [MG09]. **Graphlet** [HD16, YFK+15]. **Graphs** [AH08, CF14, HD16]. **Grassmann** [ACW12]. **GrassmannOptim** [ACW12]. **gRbase** [DH05]. **gRc** [HL07]. **Greedy** [Kon13, Wol12]. **gret1** [Ros08]. **gretl** [BK15, Luc11, LP17, YS12]. **Grids** [vE17]. **grImport** [Mur09]. **groc** [BdMM15]. **grofit** [KHLF+10]. **Group** [GG16, Was15]. **Group-Sequential** [Was15]. **Grouped** [SH14, SF19]. **Groups** [LX12, PO13]. **Growth**

[KHLF+10, Wil14a]. **gsbDesign** [GG16]. **gss** [Gu14]. **GUI** [Fel12, HCW12]. **Guide** [Bad01, Ber01, GR17b, Grö16, Grö18a, Hil15a, Iac15, Iac17, Kha18c, Mat16a, Web16, Wic10, Zho10]. **gWidgets** [HCW12]. **gWidgetsWWW** [Ver12]. **GWmodel** [GLC+15].

H [Grö15a, Hil15a, How15b, Iac15, Kha15b, Kha15a, Kha16b]. **Habitat** [Cal07]. **HAC** [OR14, Zei04]. **HACopula** [GHH20]. **Hadoop** [FM18]. **Half** [MHD17]. **Half-Normal** [MHD17]. **Hall** [Gle16, Grö16, Kha16b]. **Hall/CRC** [Gle16, Grö16, Kha16b]. **Handbook** [Hil06, MT14, Wil09, dL08, Dem18b, San06]. **Handling** [JH16]. **Hands** [Yal10]. **Hands-On** [Yal10]. **hapassoc** [BGM06]. **Haplotypes** [BGM06]. **Hardcover** [Zei16]. **Hardware** [Mur15]. **HardyWeinberg** [Gra15]. **Hazard** [CB21, Gan15]. **Hazard-Based** [CB21]. **Hazards** [GRS12, SFHT11, WZQW20]. **HC** [Zei04]. **HDclassif** [BBG12]. **Health** [ASBMB17, Bai20, SSH16, VMU05]. **Health-Related** [ASBMB17]. **Heavy** [Gil15]. **Hector** [Hil15b]. **hergm** [SL18]. **Hero** [EL09]. **Hessian** [Bra17]. **Hessians** [Bra14]. **Heterogeneity** [GLC+15, SD17]. **Heterogeneous** [BL14, MSCCV05, WLH+18]. **Heteroskedastic** [BG21, Pir10]. **Heteroskedasticity** [SYC08]. **hetGP** [BG21]. **HGLMMM** [ML11]. **Hidden** [HH19, OH11, VS10, Kha17a, San11]. **Hierarchical** [Arm19, CGC14, DW17, FBC07, FC11, GF15, GHH20, Hil09a, LH12, LH14, ML11, Mül13, OR14, Rec10a, Rec10b, SL18, SDJ20]. **Hierarchically** [SH14]. **High** [AEL10, BBG12, BW01, BKvT+14, CNLR19, Coo97, HW20, HPK18, HCW12, LCK11, Mur15, ND12, PSS+17, dVSWAL17, VG09, WZ17, XM14, dSdSCLC18]. **High-Dimensional** [AEL10, BBG12, BKvT+14, CNLR19, Coo97, HW20, HPK18, HCW12, ND12, VG09, BW01]. **High-Performance** [Mur15, XM14]. **High-Precision** [dVSWAL17]. **High-Throughput** [PSS+17, dSdSCLC18]. **Hilbe** [Grö16]. **HLMdiag** [LH14]. **hmi** [SDJ20]. **hmmm** [CGC14]. **hnp** [MHD17]. **homals** [dLM09a]. **Homogeneity** [BM96]. **Homogeneous** [Ber01]. **Homoscedasticity** [JJJ14]. **Honoring** [MM16]. **Horton** [Grö15a]. **HPGLIMMIX** [XM14]. **HPLC** [RG07]. **HPLC-DAD** [RG07]. **hsdar** [LMO+19]. **HTML** [Lei13]. **httk** [PSS+17]. **http** [But15, Grö15a, Gro08, Han15, Hel15, Hil15a, Hil15b, Hof15, How15b, How16b, Iac15, Kha15b, Kha15a, Mat15, Mat16a, Nun15, Rus15, Zei15, Zei16]. **https** [Gle16, Grö16, How15a, Kha16b, Pos15]. **Hull** [PLRC10]. **Humanities** [Pav16]. **Hurricane** [Hil15a]. **Hybrid** [CGC11]. **hybridModels** [MGFA+20]. **Hybrids** [BTMB13]. **HYDRA** [War02]. **Hyperbolic** [TBE+21]. **Hyperspectral** [LMO+19]. **Hypotheses** [Pet97a]. **Hypothesis** [Caf06, Kha15a].

ibr [CHML17]. **ic.infer** [Grö10b]. **icenReg** [AB17]. **ICS** [NOT08]. **idefix** [TSV20]. **idem** [WCLS20]. **iDEMO** [CP12]. **idendr0** [SHFB17]. **idendro** [SHFB17]. **Identification** [HY21, LDHM21, SFC20, Coe00]. **Identifying** [TK17]. **idm** [DMB18]. **II** [Wic10, HKB11, KWE+17]. **III** [How16b]. **Illness**

[BdUÁ18, MMRP11, TGJ17]. **Illness-Death** [BdUÁ18, MMRP11, TGJ17]. **Illumina** [EC16]. **Illustrating** [Gan15]. **Illustration** [GF15]. **Image** [BLY18, HKL09, KCCG11, MCAP19, SLGB14]. **Images** [GC18, PT07]. **Imaging** [CMS^{+}11, LMB^{+}07, PT09, PT11, TW11, WS11]. **IML** [AS02, JMS^{+}09, KCM08, NO06, Pan09, SB01, ZK12]. **Implement** [BMGT15, VDT14, XWHL15]. **Implementation** [Aiz12, BTMB13, CCD09, CLL17, GFPB19, GF15, GTDT20, JWHS16, KM16, Kel07, Kle16, Kur14, LPLPD14, LZL^{+}05, PG15, Pfa08, RW11, SBL^{+}10, USHH18, WLK08, WZ17, ZKG20, dS11]. **Implementations** [BP15, HI20, Scu17]. **implemented** [PSW07]. **Implementing** [BK11, DD07, EN11, HHvdWZ08, JMD08, LSPvdL17, PK08, SR18, Tri03, Udi00, Wel18, Wil14b, ZMG07]. **Import** [VYD^{+}12]. **Importance** [AH08, GT10, Grö06, RJH14]. **Importing** [Mur09]. **Improved** [Car15, MZ08, TH21, dSJdSF14]. **ImpuR** [RG07]. **Impurity** [RG07]. **Imputation** [CGK11, CF08, Dem18a, Kha20, KT16, RW11, SH09, SDJ20, SGHY11, Yua11, Yuc11, vBGO11]. **IMPUTE** [CGK11]. **Including** [Gan15, JLZJ05]. **Incomplete** [BRC98, OK14]. **Incremental** [DMB18]. **IndElec** [OO11]. **Independence** [Høj12, SF18, LS02a]. **Independencies** [Mar06a]. **Independent** [BDdM11]. **Indexed** [BILL10, Har10, Sav16]. **Indicator** [PRS18]. **Indicators** [AT13, KPRP^{+}19]. **Indices** [SFS12]. **Individual** [AVD21, SD17]. **Individual-Level** [AVD21]. **Induced** [Mar06a]. **Inductive** [Sch06]. **Industry** [Mat16b]. **Inequality** [Grö10b, JP16, MHdL12]. **Infectious** [AVD21, JGM18]. **Infer.NET** [LWOW18]. **Inference** [BFRP13, BGH^{+}17, BFH^{+}14, BEHB17, BGM06, CCF19, Can17, iM16, GTDT20, Grö10b, GV12, HIKS11, HL07, HRX16, IMR17, ILS11, KMC^{+}12, Kin04, KNI16, MHT07, RJH14, SH14, SH17, SVMMRP17, SHBZ14, Smi07, SBMD14, TDRD13, TDRD15, TR17, VW13, VGDM^{+}18, ZMG07]. **Inferences** [WCLS20]. **inferference** [SH17]. **Inflated** [KN05, LC10]. **Informatics** [Guh07, Lal16]. **Information** [BG18, CFSR15, Day01, Jos05, KH13, PV14, SSS^{+}20, Wan13a]. **informR** [MB15]. **Infrastructure** [FHM08, FK17, HH07a, TSH20, ZG05, vdLdJ21]. **INLA** [BGRR15, LR15a, MMR20, PPGRMB21]. **inlinedocs** [HWPG13]. **Innovations** [Pir10]. **Inputs** [GT10]. **Inspired** [MBK18]. **Instrumental** [AW16]. **Intake** [PZK^{+}12]. **Intake_epis_food** [PZK^{+}12]. **Integer** [Han06a]. **Integrals** [Som98]. **Integrated** [CP12, Edd09a, RFKM12, WdVW^{+}11]. **Integration** [Dah20, EF11, HHJCRB21, Kuo03, RR11]. **Intensity** [RG07]. **Interaction** [ESKHB20, NMB15]. **Interactions** [Tak16]. **Interactive** [BM97b, BCAB07, BGSC10, BW01, DKMT11, Gan15, Grö21, HKL09, Jos05, LLS15, NL12, SHFB17, SD13, The02, TD07, Udi05, Ver12, VYD^{+}12, lGlRGL09, Udi00, VM09a]. **interactively** [VMY02]. **Interdependency** [DK18]. **Interface** [AB12, CCH15, Den16, Dow16, Dun99, Fox05b, FC12, KCCG11, LL10, LSvdV19, MRHA20, RFKM12, SLS^{+}12, SGS^{+}14, UAK^{+}15, WLH^{+}18].

Interfaces [Cha16, HL09, Unw12, VML12]. **Interfacing** [Woo16]. **Interference** [SH17]. **Intermediate** [Har08, Hel17, Yal10]. **Internal** [KCM08]. **International** [CB17, LCK11]. **Interpretation** [San06]. **Interpreter** [DC09]. **Interpreting** [TWK03]. **Interval** [AB17, FS10a, TGJ17, YZZ+20, FS10a]. **Interval-Censored** [TGJ17]. **Intervals** [Kel07, Kha18c, KPSH15, LCD18, New05, SB01, You10, MJ00]. **Interventions** [MJGM10]. **Introducing** [AH12, BKT14, Han05, Han06b, Han07b, Han12, LC10, LGF+18, WMS17]. **Introduction** [AFJZ11, Edd09c, Eks13, GR18a, HHB08a, HBF17, Hel15, Hil15b, Hof15, Kha17a, KN17, KP07, Mai06, MvS07a, OHD17, San09, San11, Thi14, Tho11, WWH04, Xu06, dLM07, DN17, Hil10b, Mal09, Pie05, Sch08]. **Introductory** [Gou05, Kil16, San10b, VM09b]. **intsvy** [CB17]. **Invariant** [IP08, RS07]. **Inventories** [HMM21]. **Inverse** [LHS08, SP10, VSV09, vdWG11]. **ipdpower** [KSPR16]. **ipw** [vdWG11]. **iqLearn** [LLS15]. **Irregular** [PG15, ZG05]. **Irregular-Shaped** [PG15]. **Irregularly** [MGG+04]. **IRT** [Bat15, Fox07, MH07, She08a, She08b, TMN16, Wee10]. **IRT-Based** [Wee10]. **IRTrees** [DP12]. **ISAP** [HPK18]. **ISBN** [But15, Gle16, Grö15a, Grö16, Gro08, Han15, Hel15, Hil15a, Hil15b, Hof15, How15a, How15b, How16b, Iac15, Kha15b, Kha15a, Kha16b, Mat15, Mat16a, Nun15, Pos15, Rus15, Zei15, Zei16]. **isocir** [BFRP13]. **Isosurfaces** [FT08]. **Isotone** [dLHM09]. **Isotonic** [BFRP13]. **Isotopomer** [BMvS+07]. **Isotropy** [Wel18]. **Issue** [PLR+16, Put11]. **ISTE** [How15b]. **Itô** [GB20]. **ITA** [Sch06]. **Item** [Cha12, Cha16, CGC11, Cur10, DBZ+11, DP12, HGH05, Joh07, MF14, MPM14, MTvdM15, Riz06, Sch06, Whe14]. **Items** [ALV07, Cer17]. **Iterative** [CGC11, CHML17]. **Iteratively** [Pet97b].

J [Grö15a, Hel15, How15a]. **Jackknife** [New05, SP05]. **Jacquez** [JWHS16]. **JADE** [MNT17]. **Jagger** [Hil15a]. **JAGS** [Den16, Woo16]. **James** [Hil15a]. **Jan** [HJS16, Kro16, MM16, Tak16, Ylv16]. **JASP** [LSM+19]. **Java** [dL05b, BW01, HKL09, Nar05, PSW07, SLS+12, War02, WO97]. **Java-Based** [SLS+12]. **Java-implemented** [PSW07]. **Jean** [Pos15]. **JM** [Riz10, GHR18]. **JMbayes** [Riz16]. **jmcm** [PP17]. **JMFit** [ZCI+16]. **John** [But15, Hel15, Iac15, Kha15a]. **Joint** [DSH16, KMM+17, MDvdV19, MNT17, PP17, Riz10, Riz16, XHW20, ZCI+16]. **Jointly** [GHR18]. **Jointness** [BK15]. **JOP** [KR13]. **Joseph** [Grö16]. **Joshua** [Kha15b]. **Journal** [FL16]. **Journalism** [Grö19]. **Joy** [Yan07]. **JSM** [XHW20]. **Judgment** [Eva14]. **Julia** [Hel20]. **Just** [Woo16].

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[MPM14]. **Kleinman** [Grö15a]. **kml** [GASA15]. **kml3d** [GASA15]. **knitr** [McN14]. **kNN** [CF08]. **Knowledge** [BSVT12, Lal16, ÜS10, Xu06]. **kohonen** [WB07, WK18]. **Kolaczyk** [Nun15]. **Kolmogorov** [Car15, DKT20, MTW03, SL11]. **Kriging** [RGD12]. **Kriging-Based** [RGD12]. **KRLS** [FHH17]. **Kroese** [Kha15b]. **ks** [Duo07]. **Kuhnt** [Kha15a]. **Kullback** [LR20]. **Kutz** [How15a].

L1 [NO11]. **Label** [Pap16, TKM07]. **label.switching** [Pap16]. **Lack** [FW18, ZA17]. **Lack-of-Fit** [ZA17]. **laeken** [AT13]. **Lag** [Gas11, Mug10]. **laGP** [Gra16]. **Lambda** [Su07]. **landsat** [Gos11]. **Language** [CGH+17, ESO16, SDDD12, WG00]. **Languages** [Wei05]. **Laplace** [Ger14, KNB+16]. **LARF** [AW16]. **Large** [AGZ19, CB17, CFHBK11, DCS20, FBG15, Gra16, Hug07, Mur06, RPC15, VG09, ZMC21, MJ00]. **Large-Scale** [AGZ19, CB17, CFHBK11, DCS20, Gra16]. **Lasso** [HHJCRB21, SHBZ14]. **Latent** [ALV07, BPP17, Bea17, JFDB15, KH08, Lei04, LL11, Meu13, MD18, PLPL17, Riz06, She10, WM14]. **latentnet** [KH08]. **LaTeX** [Ruf09]. **Lattice** [PPGRMB21, SBL04, Gro08, Gro08]. **Lattice-Ordered** [SBL04]. **lavaan** [Ros12]. **lavaan.survey** [Obe14]. **Law** [HGG08]. **lawstat** [HGG08]. **Lazily** [Har15]. **LazySorted** [Har15]. **LC** [KSS+07]. **LC/MS** [KSS+07]. **lcmm** [PLPL17]. **LDheatmap** [SBMG06]. **LDR** [CFT11, AR14]. **Leader** [TKM07]. **Leakage** [BG18]. **Learning** [AGZ19, BD03, GZP14, KB16, Kur14, LLS15, Mai09b, MW19, Sch08, Scu10, Scu17, SSM21, VR14, ZUL14, Hel16a, Mai07, Mai09a]. **Least** [Das06, FHH17, KS10, Len16, MW07, ML12, Pet97b, RS08]. **Least-Squares** [Len16]. **Leeuw** [HJS16, Kro16, MM16, Ylv16]. **Leibler** [LR20]. **Leroux** [GF15]. **Level** [AVD21, Esm14, FS13, Grö14, JMD08, KO06, LSC09, Rec10b, RD21]. **Level-Dependent** [KO06]. **Lévy** [DC05]. **Lexis** [CP11, PC11]. **lgcp** [TDRD13]. **LibBi** [Mur15]. **libDirectional** [KGP+19]. **Library** [BLR97, LIL+15, MRHA20, PQM11, Scr01, War02, PQM11]. **libstable** [dVSWAL17]. **Life** [ASBMB17, SVMMRP17]. **lifecontingencies** [Spe13]. **Lifetime** [LMB+07]. **Light** [TFR16]. **Like** [DV20, ZMG07]. **Likelihood** [AR14, BGM06, Cha10, CYK+09, CFT11, CGS09, GvdL12, GV12, Hua20, Joh07, Jur15, KM08, MVS13, NMB15, OC15, RC17, RMG12, Su07, TSN21, YSH15, Yua07]. **Likelihood-Based** [AR14, CYK+09, CFT11]. **Likely** [Hot20]. **Likert** [HR14]. **Line** [HL09, Hof11]. **Linear** [Arm19, AMW14, BE13, BMBW15, But05, CdM10, Can04a, Dun99, Fox03, FBF14, FHT10, Fri06, Gas11, Ger14, Grö06, Grö10b, Had10, HH14, Hel16b, HGK+20, JLZJ05, JP16, JMS+09, KL14, Kol16, KMG+13, KBC17, LFF17, LGF+18, LH14, McI16, MYK07, ML11, Pet97a, Pet10, RBN19, Rec10b, San07, SHBZ14, SBMD14, TV11, TM05, VSV09, VDT14, WM18, WZQW20, WG00, ZLHK02, ZLC18, dSJdSF14, Caf06, Pet97b, VMY02]. **Link** [IoG10]. **Link-Based** [IoG10]. **Linkage** [SBMG06, TB17]. **LinkCluE** [IoG10]. **Linked** [PMW+15]. **Linking** [Alb16, Wee10]. **Linux** [Oom13]. **Lion** [MM16].

Lisp [Jos05, Nar05, Tie05, VMU05]. **LISREL** [Kha17b]. **List** [Har15]. **Literate** [LH07, SDDD12]. **lmdme** [FBF14]. **lme4** [BMBW15, DBZ+11, DBBD07]. **lmer** [DBZ+11]. **lmerTest** [KBC17]. **LMest** [BPP17]. **lmSubsets** [HGK+20]. **loa** [LR15b]. **Local** [AW16, BKT14, BMB16, CQZ+10, Gra16, RC17]. **LocalControl** [LNY+20]. **localgauss** [BKT14]. **Localization** [WdVW+11]. **Locally** [CN13, EN11, TPE19]. **Location** [HN13, Lec14, SR07b]. **Log** [Caf06, CGS09, DM18, DR11, Pet97a, TDRD13, TDRD15, VMY02]. **Log-Binomial** [DM18]. **Log-Concave** [CGS09, DR11]. **Log-Gaussian** [TDRD13, TDRD15]. **Log-Linear** [Pet97a, Caf06, VMY02]. **Logarithmic** [XTL13]. **logbin** [DM18]. **LogConcDEAD** [CGS09]. **logcondens** [DR11]. **Loggamma** [AMYR16]. **Logistic** [CGC11, Dha10, FS12, Grö16, Hel16b, HWY18, KZ03, RT14, SED14, WZQW20, ZMG07, Hed99]. **Logit** [FH09, HWM16, HZSW10, SD17]. **Loglinear** [BR07]. **Logrank** [FS10a]. **London** [How15b]. **Long** [PC11]. **Long-Term** [PC11]. **Longitudinal** [ASBMB17, BPP17, BdMM08, CBDM07, DLC06, GHR18, GASA15, GCA12, KK14, KMM+17, LSPvdL17, NGBK12, OC15, PP17, Riz10, Riz16, SP14, SvdLN17, XHW20, ZCI+16]. **Looking** [AJ11, vdHvB16]. **lordif** [CGC11]. **Loss** [LSPvdL17]. **Loss-Based** [LSPvdL17]. **Lost** [Tak16, Wei05]. **Lovelace** [Gle16]. **Low** [BM07, Coo97, HCW12]. **Low-Dimensional** [Coo97, HCW12]. **Low-Resolution** [BM07]. **lp_solve** [But05]. **lqmm** [Ger14]. **lrasch_mml** [OC15]. **LS2W** [EN11]. **lslx** [Hua20]. **lsmeans** [Len16]. **ltm** [Riz06]. **ltmle** [LSPvdL17]. **lubridate** [GW11]. **Luke** [Mat16a]. **lumberjack** [vdL21]. **LyX** [Kar06].

M [Grö16, SH20]. **M-Estimation** [SH20]. **m2r** [KOS20]. **Macaulay2** [KOS20]. **Machine** [KB16, Kur14, Mai07, Sch08, SSM21]. **Machines** [KMH06]. **Macro** [Dha10, FS12, GHR18, Gre17, Hla16a, Jur15, KS10, LG11, LV16, MH05, OC15, Pan09, PKC+20, SH09, SR07a, VDT14, VGDM+18, Wei12, XM14, ZCI+16, ZK12]. **Macros** [LVK+11, Law08, LS02b, NO06]. **Made** [GW11, HM16]. **Magnetic** [CMS+11, KCCG11, TW11, WS11]. **Main** [Cha03]. **Main-effect** [Cha03]. **Majorization** [GvdV16, dLM09b]. **Make** [Bak20]. **Making** [Wic10]. **Mallows** [ICL16]. **MAMS** [JPM19]. **Man** [EL09, Woo05]. **Manage** [Bak20]. **Management** [BBGL17, Grö15a, MJGM10]. **Managing** [BdMM08, BK17, But08a, Grö18a]. **Manifold** [ACW12, BILL10, Mai09a, MRHA20]. **ManifoldOptim** [MRHA20]. **Manipulating** [ZFH+20]. **Manipulation** [Wic08b]. **Mann** [FO15]. **Mantel** [BV02]. **Many** [CBAA19]. **Map** [LR15b, TB17, Sho13]. **Mapping** [FF14, KPRP+19, TKM06, Zho10, Sab07]. **MapReduce** [VR14]. **Maps** [Grö21, TP11, Ten18, WB07, WK18]. **MARCH** [Ber01]. **Marginal** [CGC14, Joh07, KAK05, OC15]. **Marginalization** [Mar06a]. **Marginalized** [VGDM+18]. **Marginals** [AH08]. **Margins** [KY10]. **Marin** [Pos15]. **Markdown** [Mor18]. **Marked** [Har10]. **Markers** [Gra15]. **Marketing** [Rus15]. **Markov** [Kha17a, San11, ABB+19, BFFN19, BPP17, Ber01, FS10b, HD10, HH19, KCCG11, KNI16, KSP15, Mar06a, MQP11, OH11, Sch16, She08a, She08b, VV16, VS10, War02]. **Markov-Switching** [ABB+19]. **Markus** [Han15]. **Marries** [Thi14]. **Marsaglia** [Bre04, Vig16]. **Mass** [CS12, Grö19]. **Massive** [KEW13]. **MATCH** [Wie04]. **Matching** [IP08, IKP09, KSS+07, RBB18, Sek11, Wie04]. **MatchIt** [HIKS11]. **Mateda** [SBL+10]. **Mateda-2.0** [SBL+10]. **Materials** [Dry09]. **Mathematica** [BH07, BH08a, BH08b, HSH07, LP13, Per03]. **Mathematical** [JGM18, Mil04]. **Mathematics** [Spe13]. **mathStatica** [Sto12]. **MATLAB** [Pie05, ÁBZ17, ÁBZ20, Ber09, CGRvD15, CSY15, Dun99, Esm14, Góm15, GHH20, HPK18, IoG10, Kao09, KT10, LZ17, LZ15, LSvdVK09, LSvdV19, McI16, PA11, RS08, dVSWAL17, RSW15, SBL+10, She08a, She08b, She10, SCL+18, VFV13, YR19, Edl04, How15b, Bow10]. **Matrices** [Bra17, RG07]. **Matrix** [ASB11, EVBK19, FS10b, Kha16b, KN03, Mon06, Pet97a, Zei04, dL08, dL08]. **MATS** [KT10]. **Maximum** [CGS09, GvdL12, Joh07, Jur15, KM08, NMB15, OC15, Su07, TSN21, VdL09, Yua07]. **mbonsai** [HNCI18]. **MCAR** [JJJ14]. **McDonnell** [Rus15]. **mcglm** [Bon18]. **mclust** [FR07]. **MCMC** [Den16, iM16, FS10b, Had10, Pap16, Riz16, Smi07]. **MCMCglmm** [Had10]. **MCMCpack** [MQP11]. **MCPMod** [BPB09]. **MCSim** [BM97a]. **mdscore** [dSJdSF14]. **Mean** [BM12, Mon06, PP17, PKC+20, SF16, SF19]. **Mean-Covariance** [PP17]. **Means** [Bel11a, HFKB12, KSBZ16, Len16, RK14, SBL04]. **Measure** [MH15]. **Measurement** [HXY12, PZK+12, Tiv19, WW11]. **Measurements** [MvS07b]. **Measures** [BK15, Fri10, KAK05, KT10, LW03, Rec10b]. **meboot** [VdL09]. **Mechanisms** [BLM+15]. **medflex** [SLMV17]. **Median** [FMM+20]. **Mediation** [SLMV17, TYH+14, TYH+14]. **Medical** [Hil09b, JS13, NRG+17, Spa06]. **Meet** [HM11]. **mefa** [Sól09]. **Meißner** [Iac15]. **Membership** [SP14]. **Memetic** [BMB16]. **Menu** [BP12]. **merDeriv** [WM18]. **Meta** [BER+16, Bur12, CO16, GR18b, GV12, KR09, LZHC17, LCSC14, MF15, Röv20, Ver18, Vie10, WF12, How16a]. **Meta-Analyses** [Vie10]. **Meta-Analysis** [BER+16, Bur12, CO16, GR18b, GV12, KR09, LZHC17, LCSC14, MF15, Röv20, Ver18, How16a]. **Meta-Statistics** [WF12]. **meta4diag** [GR18b]. **Metabolic** [BMvS+07]. **MetaEasy** [KR09]. **metafor** [Vie10]. **metaLik** [GV12]. **Metamodeling** [RGD12]. **Method** [ABW13, CC08, Cha10, Das06, Dem11, FR15, HSH07, HL09, Kur14, LZL+05, MT98, NMB15, Pen08a, SMS13, Yua07, MT00]. **Methodologists** [WDT+12]. **Methodology** [GR16b, HNCI18, AFJZ11]. **Methods** [ADH11, BMR14, BP15, Boy05, Chr11, CKO11, DMB18, Den16, Der10, DKMT11, Doa11, DG11, ESKHB20, FR07, FS10b, Gon14, GRS12, GB20, Had10, HH14, Ham10, How15a, Iac17, JvdBP07, KSHZ04, Kha18b, KAK05, KG17, KR10a, Len09b, Luc11, Nas14, Nor17, NO11, OCRC14, Pel11, RD21, Ros17, Scr01, Sim07, Str04, Su07, ÜS10, Wee10, Wic10, Xie13, dL06, dL09c, dLM09a, dLHM09, Har08]. **Metric** [IP08, ZPZW21]. **mexhaz** [CB21]. **MF** [SWAF15]. **MFSAS** [CC11]. **mgcv** [Woo16]. **mgm** [HW20]. **mhsmm**

[OH11]. **mi** [SGHY11]. **MICE** [RW11, vBGO11]. **Michael** [Hel15]. **Michel** [Pos15]. **Micro** [RD21, TKM15]. **Micro-Data** [TKM15]. **Micro-Level** [RD21]. **Microarray** [CYK$^+$09, DM19, FO15]. **Microarrays** [EC16]. **Microdata** [Kav15]. **micromap** [PMW$^+$15]. **Micromaps** [PMW$^+$15]. **micromapST** [PPC15]. **Microscopy** [LMB$^+$07]. **Microsimulation** [Gle16]. **Microsoft** [KR09]. **microsynth** [RD21]. **MIDAS** [SH09]. **midasr** [GKZ16]. **Million** [Mur06]. **mimR** [Høj04]. **Minimal** [Cha03]. **Minimum** [FS13, LSPvdL17]. **Minimum-Size** [FS13]. **Mining** [But15, Fay18, FHM08, Fuj17, HGH05, Lal16, Mai08, Ros09, TFH12, Wic10, Iac15, Xu06]. **Minitab** [GL14]. **MinPROMEP** [Cha03]. **mipfp** [BS18]. **MIRT** [She10, Cha12]. **Mises** [HG14, XGY06]. **Missing** [CBDM07, CCH15, Dem18a, HKB11, JJJ14, JH16, Kha20]. **Missingness** [WCLS20]. **missMDA** [JH16]. **MissMech** [JJJ14]. **MitISEM** [BGH$^+$17]. **Mix** [SH17]. **mixAK** [KK14]. **Mixed** [BMBW15, CGK11, CA17, CLL17, DKT20, FS13, FM18, GHR18, Ger14, GKZ16, GKZ12, Had10, HH14, HW20, HN13, HSG12, JP16, Kol16, KSPR16, KBC17, LSC09, Lec14, LG11, MF15, NW04, PLPL17, Sch11, TV11, VDT14, WM18, Wee10, ZLC18, Hed99, Chr09]. **Mixed-Effects** [BMBW15, HN13, Kol16, Lec14, Hed99]. **Mixed-Format** [Wee10]. **Mixed-Level** [FS13, LSC09]. **Mixed-Type** [FM18]. **mixexp** [LW16]. **MixGHD** [TBE$^+$21]. **MixMAP** [MF15]. **Mixmod** [LIL$^+$15]. **MIXNO** [Hed99]. **MIXREGLS** [HN13, Lec14]. **MixSim** [MCM12]. **mixsmsn** [PCL13]. **mixtools** [BCHY09]. **Mixture** [AHvD09, BCHY09, BSVT12, BER$^+$16, BMGT15, FSLZ12, HH19, HS18, KG17, LW16, LM18, Lei04, LHA$^+$15, MSCCV05, MMR20, PCL13, Sav16, Su07]. **Mixtures** [Can17, GL08, HG14, LM13, MNA$^+$97, PMM18]. **MLDS** [KM08]. **MLGA** [Jur15]. **mlirt** [Fox07]. **mlogit** [Cro20]. **mlt** [Hot20]. **MLwiN** [LC13, ZPC$^+$16]. **MM** [AH12, DV20]. **mmeta** [LCSC14]. **mnlogit** [HWM16]. **MNM** [NO11]. **MNP** [IV05]. **Mode** [AACRC21, Meu13, MD18]. **Model** [AEL10, AMYR16, AWBM18, BdUÁ18, Bar96, BBG12, BIG17, BK15, BYPJ19, Bro15, CdM10, CN18, Den16, DM18, DBBD07, FR07, GRMMR19, GRS12, HD10, HMS16, HZSW10, HSG12, HWY18, Jal19, LIL$^+$15, Lei13, LM19, LC10, MRC15, Mar06a, MH05, MMRP11, Mel16, MGH18, NW04, PZK$^+$12, PT11, San07, Sch11, SR18, She08b, TMW18, TBE$^+$21, WB08, ZC10, ZF15, dS11, IV05, SFHT11, Gum07]. **Model-Based** [AWBM18, BBG12, BIG17, BYPJ19, Bro15, GRMMR19, LIL$^+$15, Mel16, SR18, TBE$^+$21, FR07, Gum07]. **Modeler** [Woo16]. **Modeling** [AB12, BG18, Bai20, BS15, BSVT12, BG21, BS13, Car13, CYK$^+$09, CBHK21, Der10, DOV17, FR15, Fox07, FEvdL07, GF15, GTDT20, Gra16, Grö15b, HD12, Hel16b, How15a, How15b, HS18, Hua20, Jac16, JHQ$^+$11, JGM18, Kha15b, KCCG11, KP07, KY10, KSPR16, KMM$^+$17, Kuk09, LC13, Lee13, LRN18a, MdlT20, MH07, MF15, ML12, MvS07b, NE20, PP17, PR07, PRS18, Riz06, Ros12, SH07, Sel11, SKS15, SCL$^+$18, SYC08, SF16, SF19, Tri03, VPCS14, VKM18, VP18, XHW20, YFK$^+$15, Ziv11, SCD07]. **Modelling** [Har10, HC05, Høj04, LR15a, Mur15, PHF10, Riz10, SP10].

Models [ASB11, AVD21, AB17, ALV07, AMMRP14, ABC19, ABB^{+}19, Arm19, AMW14, BTMB13, BR07, BP19a, BPP17, BMBW15, Bel11b, BCHY09, BER^{+}16, BVE^{+}15, Bon18, Bos11, BKL05, BRG20, BMGT15, Bür17, Bur12, Caf06, CdM10, Can04a, CG15, CP11, CB21, CP12, CKY14, Chr09, CGC14, CLL17, Cro20, DBZ^{+}11, DP12, Den16, DH05, DLC06, Dun99, Eva14, FDB12, Fie12, FBC07, FBG15, Fir05, FC11, Fot03, Fox03, FH09, FW18, FBF14, FSLZ12, FHT10, Fri06, Gan15, GHR18, Gas11, GRK^{+}16, Ger14, GF15, GKZ16, GLC^{+}15, GR18a, Góm15, Gon14, Gra07, GT10, GH11, Gu14, Had10, HH14, HWM16, HW20, HXY12, Hel16b, HH19, HHV20, Hoh18, HL07, HRX16, HHB^{+}08c, ICL16, IM05, JvdBP07, Jac11, JLZJ05, JFDB15, JP16, JCPL19, Joh07, JMS^{+}09, Jon07, KMC^{+}12]. **Models** [KN05, KL14, Kha17a, KBMB19, KAK05, KR10a, Kol16, KV13, KMG^{+}13, KH08, KSP15, Kuh08, KBC17, LS02a, LCD18, Lei04, LFF17, LG11, LHA^{+}15, LH14, LP17, Lum96, Mai06, MH07, MPI18, McI16, MSCCV05, MMR20, Men11, MR18, MP12, Mil17, MW19, ML11, MTvdM15, MBR11, MHD17, MHH08, MHdL12, MRL12, NAA17, OH11, OHD17, Obe14, OC15, PPGRMB21, PPGD15, Pen03, PA11, Pet97b, PV14, Pet10, PP11, Pfa08, PKC^{+}20, Pir10, PLPL17, Put11, QY19, Rec10b, Riz16, RST19, RMG12, SF18, San07, San11, Sar16, SD17, SP14, Sch11, SL18, She08a, She10, Sho13, SHBZ14, SR07b, SLMV17, SBMD14, SM07, TKM17, TSN21, TV11, TR17, TM05, TR14, TH08, TGJ17, TF12, UNBK17, UAK^{+}15, Van11, VS10, VDT14, WW11, Wan13b, WM18, WZQW20]. **Models** [Whe14, WMR16, XWHL15, ZMG07, ZLHK02, ZKJ08, ZCI^{+}16, ZLC18, ZHZ20, dSJdSF14, dWFP11, Hil09a]. **Modern** [DKMT11, Gou10, Hil15a, Dow17, Mai09a, Rui16, dL05c, dL12]. **Modes** [Lei10]. **Modifed** [Tri03]. **Modifying** [MB15]. **Modular** [Han06b]. **Module** [SBMD14]. **MOEADr** [CBA20]. **Mokken** [vdA07, vdA12]. **Molecular** [BKvT^{+}14]. **Moment** [GB20]. **Moments** [Cha10, Phi10]. **Momocs** [BPGC14]. **Mondrian** [The02]. **Monitoring** [SSH16, vdL21]. **Monkeying** [Mar05]. **Monogan** [How16b]. **Monotone** [DV20]. **Monte** [BFFN19, KCCG11, BM97a, CGRvD15, CGC11, DK18, GB20, Joh09, LT16, MQP11, She08a, She08b, SP10, War02, Zho15]. **Monty** [MT98]. **Moodle** [ZUL14]. **Morgane** [Gle16]. **Morphometrics** [Bow09]. **Morse** [GP12]. **Mortality** [CB21, MP14, Mug10, VKM18]. **MortalitySmooth** [Cam12]. **Most** [Hot20]. **mosum** [MKC21]. **Mother** [NMB15]. **motion** [Coe00]. **Motions** [DC05]. **Moult** [EBO^{+}13, EBO^{+}13]. **Moving** [LRN18b, MKC21]. **movMF** [HG14]. **MPCI** [SFS12]. **mplot** [TMW18]. **MR** [EC06]. **MRI** [Ach09, FT11, Fer11, TP11]. **mritc** [FT11]. **MS** [KSS^{+}07]. **msBP** [Can17]. **MSGARCH** [ABB^{+}19]. **msm** [Jac11]. **msr** [GP12]. **msSurv** [FDB12]. **MST** [CSNF18]. **mstate** [dWFP11]. **MTPmle** [VGDM^{+}18]. **multgee** [Tou15]. **Multi** [ASB11, BP19b, CP11, Had10, Jac11, JPM19, Kao09, KSP15, LQC^{+}12, MvB14, MZH06, MvS07b, MLMK12, Nag21, Pen03, Put11, SDDD12, She08b, dWFP11]. **Multi-Arm** [JPM19]. **Multi-dimensional** [Pen03]. **Multi-Language** [SDDD12]. **Multi-Objective**

[BP19b, Kao09, MLMK12]. **Multi-Regional** [LQC+12]. **Multi-Response** [Had10]. **Multi-Stage** [JPM19]. **Multi-State** [ASB11, CP11, Jac11, KSP15, Put11, dWFP11]. **Multi-Subject** [MvB14]. **Multi-Threading** [Nag21]. **Multi-Unidimensional** [She08b]. **Multi-way** [MZH06, MvS07b]. **Multiblock** [BD18]. **MultiBUGS** [GTDT20]. **Multiclass** [CC08]. **Multicore** [Hof11]. **Multidimensional** [BS18, Cha12, Cha16, GvdV16, LBW18, dL05c, dLM09b]. **Multidisciplinary** [Kuk09]. **Multifactor** [Pet97a]. **Multifractional** [DC05]. **Multilevel** [Bür17, CGK11, CC11, DBBD07, Fot03, Fox07, Grö15b, Hil09a, LC13, dS11]. **Multilevel/Hierarchical** [Hil09a]. **multimode** [AACRC21]. **Multinomial** [CGC14, FH09, HWM16, SD17, Tou15, MJ00, IV05]. **Multiobjective** [CBA20]. **multipanelfigure** [GC18]. **Multiphase** [HMM21]. **multiPIM** [RJH14]. **Multiple** [ALV07, Bon18, CGK11, CFHBK11, GC18, HWY18, JM15, JLZJ05, Kla18, KPSH15, KT10, KR13, LSvdV19, OH11, Ost20, SP14, SH09, SB01, SDJ20, SGHY11, WGSL12, Yua11, Yuc11, ZC10, RW11]. **Multiple-Objective** [HWY18]. **Multiple-Table** [WGSL12]. **MultipleCar** [LSvdV19]. **Multiplex** [MRV21, Ost20]. **Multiplication** [LBW18]. **Multiplicative** [AH12, Pet97b]. **Multiplicity** [SFC20]. **Multiplicity-Adjusted** [SFC20]. **Multiresolution** [SCS13]. **Multiscale** [Can17]. **Multistate** [FDB12]. **multitable** [WGSL12]. **Multivariable** [AS02, CCH15]. **Multivariate** [AG19, AS04, AH12, AWBM18, BS18, BEHB17, CSNF18, CSY15, CHML17, CO16, CGS09, Duo07, Eks10, Eva11, FDGD16, FBC07, FBG15, FBF14, Fri06, GKSU15, Gro08, Han12, HHV20, JM15, JJJ14, JMS+09, JH16, Kha16a, KY10, KK14, LDHM21, LCL+08, LJH08, LM13, LM03, LBC+16, LCSC14, Mai09a, Mai09c, MdL10, NO06, NOT08, NO11, PPGRMB21, Pen08a, Phi10, PMM18, San06, SFS12, SMM+15, Sek11, Som98, Som01, TDRD15, TPE19, TD07, TF09, Tri03, VW13, WCHB11, Zei16, dL05a, vdHvB16, vBGO11, Kha16c, Kha17b, Mül16, Ros17]. **multivator** [Han12]. **multiwave** [AG19]. **Multiway** [Kro16, Lei10]. **Munzert** [Iac15]. **mvLSW** [TPE19]. **mvord** [HHV20]. **MXM** [LAF+17]. **My** [Kro16, Tak16].

nacopula [HM11]. **Nash** [CI17]. **Nathan** [How15a]. **Native** [Wei12]. **Natter** [SLGB14]. **Natural** [SLGB14, SLMV17]. **Navigation** [HO20]. **NbClust** [CGBN14]. **Near** [RBB18, Was15]. **Near-Far** [RBB18]. **Near-Optimal** [Was15]. **nearfar** [RBB18]. **NeD** [SGS+14]. **Need** [Wei05]. **Needed** [PV14]. **Nested** [BFM18, HM11]. **Nestedness** [SGS+14]. **Net** [SHBZ14]. **netCoin** [EMU20]. **NetLogo** [Thi14]. **Network** [BdMM08, BB12, But08b, ECW+12, EMU20, HHB+08b, KLNN20, LZHC17, Mat16a, Nun15, PV14, RBN19, Scu17, SD13, VR14, But08a]. **Networking** [LCK11]. **Networks** [AGZ19, Bec18, BB12, BMvS+07, BD03, DCS20, GD21, GW18, Høj12, HPK18, HHB+08c, JGM18, KH08, MRV21, MGFA+20, Ost20, PSS20, Scu10, VPCS14, YMB20]. **networksis** [AH08]. **Neuhäuser** [Han15]. **Neural** [Bec18, BB12]. **NeuralNetTools** [Bec18]. **neuRosim** [WDM+11].

Neutral [Han07b]. **Newdistns** [NR16]. **Newton** [Das06, MHJS16]. **nhorton** [Grö15a]. **nhorton/r2/** [Grö15a]. **NHPoisson** [CAA15]. **Nicholas** [Grö15a]. **Nick** [Kha16b]. **NIfTI** [WST11]. **Nineteen** [AJ11]. **NISS** [SGK03]. **nlsem** [UNBK17]. **nlstools** [BRC$^+$15]. **Node** [PSS20]. **Nodes** [HD16]. **nominal** [Hed99]. **Nomogram** [CG15]. **Non** [Ber01, Cha16, CA17, Gas11, LS02a, MS19, MW10, Ngu07, Per03, Pet97b, PSS20, SP14]. **Non-Adaptive** [Cha16]. **Non-Bayesian** [MS19]. **Non-Binary** [Ngu07]. **Non-homogeneous** [Ber01]. **Non-independence** [LS02a]. **Non-Linear** [Gas11, Pet97b]. **Non-Parametric** [CA17, Per03, PSS20, SP14]. **Non-Standard** [MW10]. **nonbinROC** [Ngu07]. **Nonhomogeneous** [CAA15]. **Nonlinear** [BRC$^+$15, BFC02, CLL17, Fot03, Gan15, Gra07, Jam99, PZK$^+$12, UNBK17, VG09, VDT14, vdHvB16, dL09a]. **Nonnegative** [FDGD16]. **Nonparametric** [ABS01, AM14, BEHB17, CCF19, Can17, Can04b, CQZ$^+$10, Con03, DLN17, DSD13, FDB12, HR08, HIKS11, JM15, JHQ$^+$11, KK15, KPSH15, MS19, MVS13, MW12, Mül16, NGBK12, OCRC14, PP18, dREP12, Ros15, Sav16, Scr01, SVMMRP17, SSM21, SBL04, Wel18, ZA17, ZK12]. **NonpModelCheck** [ZA17]. **Nonstandard** [Gon14]. **Nonstationary** [Gra07]. **nopp** [CI17]. **Normal** [AD15, Eks10, Mar04, Mar06b, MP99, Mey13, MHD17, Phi10, PCL13, PMM18, She08a, Som98, Som01]. **Normality** [JJJ14]. **Normalizing** [GSW20]. **normalp** [MR05]. **North** [TKM07]. **Note** [Bre04]. **Notes** [Tie05]. **Novel** [Cha03]. **November** [LCK11]. **np** [HR08]. **nparcomp** [KPSH15]. **NParCov3** [ZK12]. **nparLD** [NGBK12]. **npbr** [DLN17]. **NPCirc** [OCRC14]. **npmv** [BEHB17]. **npregfast** [SVMMRP17]. **nprobust** [CCF19]. **NScluster** [TSN21]. **Nucleotide** [SBMG06]. **Null** [ZFZ10]. **Number** [Bre04, CGBN14, Dry09, SIR$^+$11, XTL13, YS12, MJ00, PL05, SM12, SLF14]. **Numbers** [AS04, SMDS11]. **Numerical** [ALO$^+$10, BE13, HSH07, Kha18b, Kuo03, Mey13, Pie05, Som01, Var14, Mat16b]. **Nutshell** [Edd11, Leo10]. **NY** [Gro08]. **Nyhuis** [Iac15].

OasisR [Tiv19]. **Object** [ATF10, BM97b, HK20, Kle16, PR07, SHR96, TF09, Zei06, ZKG20, Udi00]. **Object-Oriented** [ATF10, BM97b, HK20, Kle16, PR07, SHR96, TF09, ZKG20, Zei06, Udi00]. **Objective** [BP19b, DR20, HWY18, Kao09, MLMK12, VG09]. **Objects** [CP11]. **Observation** [DS15, OH11]. **Observation-Driven** [DS15]. **Observations** [TGJ17, VV16]. **Observed** [Alb16, KNI16]. **Observed-Score** [Alb16]. **OBsMD** [DR20]. **Occupancy** [MBGK18]. **Occurrence** [FC11, GVM16]. **Octave** [GHH20]. **Odds** [FH09, Wan13a]. **Off** [DV20]. **Off-the-Shelf** [DV20]. **ofw** [CC08]. **Ogive** [She08a]. **Ohri** [Mat15]. **Oja** [FMM$^+$20]. **OjaNP** [FMM$^+$20]. **OLAT** [ZUL14]. **Oncology** [ASBMB17, WS11]. **One** [BH07, BH08a, BH08b, Pat16, PKC$^+$20]. **One-Dimensional** [Pat16]. **One-Factor** [PKC$^+$20]. **One-sample** [BH07]. **One-Sided** [BH08a, BH07]. **OneArmPhaseTwoStudy** [KWE$^+$17]. **Ones**

[Mat16c]. **Online** [Din06, KMG+13, Zha14]. **Open** [DKMT11, PQM11]. **Opening** [SGHY11]. **OpenMP** [TSN21]. **Operating** [GG16, LW03]. **Opportunities** [Wei05]. **OptGS** [Was15]. **optim** [Var14]. **Optimal** [CI17, GZP14, HZSW10, HWY18, Kao09, KPH+21, LRRÁCSGS14, MdL10, MvB14, OWA20, TH21, TSV20, TBS14, Was15, YZZ+20, dLM09a, Grö11]. **OptimalCutpoints** [LRRÁCSGS14]. **Optimization** [ACW12, Bar14, BDKL17, BP19b, Bra14, FNB20, GT10, KM14, KR13, MRHA20, MS11, MAG+11, Mul14, NV11, Nas14, RGD12, Rui16, Sek11, TSH20, Var14, dLHM09]. **Optimizations** [MBK18]. **Optimized** [Scu17]. **Optimizing** [VG09]. **Optimum** [PJSPC17]. **optimx** [NV11]. **Orange** [HZS21, SD13]. **Orbits** [HD16]. **Order** [HHB08a, KH13, RBN19, Tiv19]. **Order-Restricted** [KH13]. **Ordered** [MMM12, SBL04]. **Ordinal** [AD15, Arc10, BP12, CGC11, GSD12, Hel16b, HHV20, LX12, MHM20, MH05]. **ordinalCont** [MHM20]. **OrdNor** [AD15]. **Organizing** [WK18, WB07]. **Orientation** [Mur03]. **Oriented** [ATF10, BM97b, HK20, Kle16, PR07, SHR96, TF09, ZKG20, Udi00, Zei06]. **Orientlib** [Mur03]. **Origins** [Gow16]. **Orthogonal** [ADN15, BdMM15, Cha03, FS13]. **Oscars** [Unw12]. **osDesign** [HSL11]. **Other** [BGM06, Dem11, DV20, HR14, HM16, RG07]. **Outcomes** [KMM+17, RSW15, TM15]. **Outlier** [Law08, McB06]. **Outliers** [PRS18]. **Outline** [BPGC14]. **Output** [Han05, Lei13, Smi07]. **Outputs** [MRC15, Pap16]. **Over-Dispersed** [SF19]. **Overall** [CB21]. **Overdispersed** [KM16, MHD17, SF16]. **Owen** [Pat00]. **Ox** [Bos11, HB17, Pel11]. **Ox/SsfPack** [Pel11]. **Oxford** [Han15, Hil15a, Hil15b, How15a].

P [Gle16, Grö16, Gro08, Han15, Hel15, Hil15a, Hil15b, How15a, Kha15b, Mat15, Mat16a, Nun15, Pos15, Rus15, Cam12]. **P-Splines** [Cam12]. **p3state.msm** [MMRP11]. **PaCAL** [KJ14]. **Package** [ADH11, AEL10, AH08, ACW12, AR14, AMYR16, Alb16, AGG13, ATF10, AT13, ASB11, AVD21, AH12, AD15, AACRC21, ABW13, AWBM18, ASBMB17, AGZ19, Arc10, AHvD09, ABC19, ABB+19, AMW14, AM14, BG18, BT05, BDMP15, BK11, BFFN19, BP19a, BdUÁ18, Bar14, BFRP13, BS18, BPP17, BGH+17, BE13, Bat15, BRC+15, Bea17, BBGL17, BCHY09, BDKL17, BKT14, BBG12, BMB16, BIG17, BSVT12, BK17, BdMM15, BP19b, BMvS+07, BVE+15, BN10, Bon18, BDdM11, BPB09, BD03, BD18, BCAB07, Bra15, Bra14, Bra17, BS13, BWMBC21, BPDD08, BKvT+14, BEHB17, Bür17, Bur12, But08a, CdM10, CSNF18, Cam12, CKE20, CBA20, Can17, CC08, CDP20, CB17, CN18, CFHBK11, CAA15, Cer17, Cha12, CQZ+10, CGBN14, CB21, CKSLS12, CC11, CA17, CKY14, CGC11, CBHK21, CGC14, CFSR15]. **Package** [CFT11, CHML17, CO16, CM08, Cro20, CF08, CL13, CGS09, CJM06, CI17, DMB18, DLN17, DBZ+11, DC05, DR20, DMD15, Den16, DH05, DW17, DCS20, DM18, DBBD07, DK18, DD07, DOV17, DV20, DM19, DPSH18, DS15, DGJ+18, DGP08, EWMR20, ESKHB20, EE07, EBO+13, EMU20, Esm14, FS10a, FBdlF12, FT11, FDB12, Fer11, FDGD16, FH10,

Fie12, FBC07, FO15, FMM+20, FC11, Fok20, Fox07, FEvdL07, FH09, FC12, FS20, FM08, FSLZ12, FKP17, FGEMI12, FNB20, FS10b, GR16a, GRD13, GSD12, Gan15, Gas11, GGC+15, GRK+16, Ger14, GP12, GG16, GKZ16, GK16, Gil15, GKD14, Gio09, GGK10, GLC+15, GKSU15, GCA12, GFS14, GDMB08, GFC12, GU07, Gos11, Gra15, Gra07, GT10, GvdMW09, GD21, GW18, Grö06, Grö10b, Grö14, Grö18b, GSW20]. **Package**
[GvdL12, GH11, Gu14, GB20, GV12, Had10, HPWdL15, HHB08a, HX13, HHY06, HH14, HNCI18, HD18, HSL11, Han06b, Han07b, Har10, HWM16, HD12, HR08, HXY12, HM18, HP09, HH19, HH07b, HMM21, HHV20, HM11, HO20, HMS16, Hoh18, Høj04, HL07, Høj12, HMR+13, HG14, HHvdWZ08, Hot20, HPK18, HSG12, HGG08, HY21, HHB+08c, HGH13, HK08, HWY18, IP08, IMR17, IoG10, IV05, ILS11, ICL16, JvdBP07, Jac11, JPM19, Jal19, JM15, JJJ14, JP16, JGM18, JLH+20, JD15, JCPL19, Jon07, JH16, KOS20, KMC+12, KSHZ04, KL14, Kas16, Kav15, KK15, KBMB19, Kie08, KWE+17, KE14, KO06, KNI16, Kle16, KLNN20, KN03, KG17, KR10a, KY10, Kol16, KK14, KSBZ16, KPSH15, KJ14, KV13, KT16, KPRP+19, KSP15, Kuh08, KR13, KPH+21, KR10b, KBC17, LAF+17]. **Package**
[LDHM21, LRGTA12, LNY+20, LJH08, LIL+15, Lee13, LM13, LM18, Lee18, LRN18a, LMO+19, Lei10, LHS08, LSPvdL17, Len16, LR20, LBW18, LM14, LM19, LFF17, LZHC17, LL11, LBC+16, LC10, LZ15, LSL20, LHA+15, LRRÁCSGS14, dUJ13, LSvdVK09, LX12, LCSC14, MdlT20, MRC15, MR12, MF14, MB17, MHJS16, MS19, MH07, MdL10, MHE20, MHM20, Mar06a, MH15, MGFA+20, MBGK18, MF15, MP14, MPM14, MYK07, MZ08, MS11, MMR20, MKC21, MCM12, Mel16, MJGM10, Meu13, MW07, MHH17, MVS13, MW12, MR05, MW19, ML11, MTvdM15, MBR11, MV14, MHD17, MdUÁC10, MN14, MvS07b, MAG+11, Mur03, Mur09, MG09, NR16, Nag18, NG07, NMB15, ND12, NGBK12, NOT08, NO11, NAA17, OH11, OHD17, Obe14, OR14, OCRC14, OL17, Oom13, OK14, OWA20, Pac07, PPGD15, PP17, Pan18]. **Package**
[Pap16, PLRC10, PMW+15, PSS+17, PG15, PSY20, PP18, Pet10, Pfa08, PSS20, PV20, PO13, PU13, PMD19, PT07, PT09, PT11, PLPL17, PMM18, QY19, dREP12, RT14, RBB18, RC17, RJH14, Riz06, Riz10, Riz16, RST19, RR11, RMG12, Ros15, Ros12, Röv20, RVCG19, RSW15, SF18, SBL+10, SFS12, Sar16, SD17, SIR+11, SZ11, SED14, SMM+15, Sch16, SlRC16, Scr13, SR18, Scu10, Scu17, SVMMRP17, She08b, Sho13, SS19, SKS15, Sim07, Smi07, SYC08, SLS+12, SP10, SPS10, SvdLN17, Sól09, Som12, SSM21, Spe13, SDJ20, SLMV17, SM07, SLG05, SSV14, SSS+20, TP11, TKM17, TSN21, TM15, TMW18, TV11, TDRD13, TB17, TR17, TPE19, TKM15, TMKD17, TMN16, Thi14, TFR16, TK17, TYH+14, Tiv19, TH08, Tou15, TGJ17, TSV20, TF12].
Package
[UNBK17, ÜKD09, ÜS10, USHH18, VW13, VG09, VPCS14, Ver18, VKVC15, Vie10, VV16, VKM18, VdL09, Vin17, VYD+12, VS10, WGSL12, WMS17, WW11, Wan11, Wan13b, WLH+18, WZL20, WCLS20, Was15, Wee10, WB07, WF12, Wel18, WDM+11, WZQW20, Whe14, WM14, Wic07, WCHB11,

WBEE19, Wie04, WMR16, XMW10, XWHL15, Xie13, XHW20, Yan07, YZZ+20, YEL18, YFK+15, Yee10, YSH15, You10, YMB20, Yua07, ZA17, ZMC21, ZG11, ZF15, ZPC+16, ZQS16, Zha07, ZWH17, ZP13, ZPZW21, ZD17, dSJdSF14, dLM09a, dLM09c, dSdSCLC18, dWFP11, vE17, vdL21, vdWG11, Edl04, HS18, LM03, Sek11, SAR11, TBE+21, ZLHK02, GR17b].
Packages [Alm10, BdMM08, DHF15, GASA15, HL09, KMTS14, MNT17, RGD12, SHFB17, TD07]. **PAFit** [PSS20]. **Pages** [Ver12]. **Paired** [HD12]. **Pairwise** [SBMG06]. **Palaeoecology** [Sim07]. **Palettes** [CBAA19, ZFH+20]. **Palm** [TSN21]. **Panel** [ÁBZ17, BL14, BK11, CM08, Jac11, LP17, MP12, Mil17]. **Panel-Corrected** [BK11]. **Papers** [Tak16]. **Parallel** [CGRvD15, Den16, GTDT20, GB20, HM16, Hof11, Mat16c, dVSWAL17, SMDS11, SME+09, Scu17, Zho15, dS11]. **Parallelizing** [PLZ+15]. **Parameter** [CLL17, HWY18, MR18, MLMK12]. **Parameterization** [Mug10]. **Parameters** [GL08, RC17, Sar16]. **Parameterwise** [DSH16]. **Parametric** [CA17, CL13, Cul11, HH14, HIKS11, Jac16, KL14, KSP15, MS19, MRL12, NMB15, Per03, PKC+20, PSS20, Ros15, SP14, TP11, XHW20]. **Parametrical** [RMG12]. **Parental** [TV11]. **parfm** [MRL12]. **parseuas** [RGK20]. **Parsimonious** [PMM18]. **Partial** [BV02, FW18, MW07, ML12, Wan13a]. **Partially** [Cha03, Har15, KNI16]. **Particle** [Nor17]. **Particle-Based** [Nor17]. **Partition** [MH15, Sho13]. **Partitioned** [GKZ12]. **Partitioning** [GGC+15]. **Partitions** [Han06a, HW07]. **Parts** [ZC10]. **Party** [CI17, OO11]. **pass** [MT02]. **Passing** [Hof11]. **Past** [Tie05, ZK08]. **Patch** [PPT20]. **Patch-Wise** [PPT20]. **Paths** [FHT10, RT14, SFHT11]. **Patient** [CKE20]. **Pattern** [BMGT15, Mai07]. **Pattern-Mixture** [BMGT15]. **Patterns** [BT05, DM19, GRD13, GR16b, MR12, Mai08, MTPL15, PG15, PPC15]. **PAVA** [dLHM09]. **Paweł** [But15]. **pbkrtest** [HH14]. **pcalg** [KMC+12]. **pcIRT** [Hoh18]. **pcnetmeta** [LZHC17]. **PCovR** [VKVC15]. **pcse** [BK11]. **pdc** [Bra15]. **pdfCluster** [AM14]. **Peak** [RG07]. **Pearson** [Pan09]. **Penalized** [CRW05, GRS12, Hua20, RMG12, McI16]. **Penalties** [LGF+18, McI16]. **Penalty** [CS12]. **Percentage** [Pan09]. **Percentile** [EB03]. **PerFit** [TMN16]. **Perform** [Can17, GGC+15]. **Performance** [Esm14, LCK11, MCM12, Mur15, Som12, XM14]. **Performing** [ABW13, EE07, FS20, GB20, LZHC17, Spe13]. **Performs** [RS07]. **Period** [SH07]. **Periodograms** [TFR16]. **Perl** [Bai04, Ros09]. **PerMallows** [ICL16]. **Permutation** [HHvdWZ08]. **Permutations** [Hüs06]. **Person** [TMN16]. **Person-Fit** [TMN16]. **personalized** [HY21]. **Perspective** [Kil16, Mai09b]. **Perspectives** [BMR14]. **Peter** [Iac15]. **Pewsey** [Han15]. **Phase** [HSL11, KWE+17, SED14, SMS13]. **Phases** [PV20]. **Phenomena** [MHH17]. **Phonetic** [HI20]. **Photovoltaic** [Lam12]. **PHP** [MP06, dL97]. **phtt** [BL14]. **Phylogeographic** [MHE20]. **Pilots** [KCM08]. **pinktoe** [Nas05]. **PIRLS** [Pet97b]. **Pitfalls** [GF15]. **Planning** [KCM08, KWE+17]. **Plans** [Cha03, Kie08, MMB15]. **Platform** [AB12, DH05, Jac16]. **plink** [Wee10].

plm [CM08]. **Plot** [EB03, MF14]. **plotKML** [HRBP15]. **plotROC** [Sac17]. **Plots** [BFC02, DP03, FW18, Fri06, Fri10, GC18, HO20, MHD17]. **Plotting** [GRD13, Sac17]. **pls** [MW07]. **Plug** [TFH12]. **Plug-In** [TFH12]. **PLUS** [dL05a, BLR97, But05, Can04b, Con03, HC05, Kuo03, SP05, ZG11, Wie04, SCD07, Fox05a]. **POBE** [MvB14]. **Point** [BT05, BTMB13, Dow16, EE07, FBC07, FBG15, GRD13, GR16b, Har10, JM15, KSS+07, MTPL15, MKC21, PG15, Pen03, TSN21]. **Point-and-Click** [Dow16]. **Point-Referenced** [FBG15, FBC07]. **Points** [LPLPD14, Pan09]. **Poisson** [Cam12, CAA15, KN05, Pet97b, TKM17]. **poLCA** [LL11]. **Policies** [KvEPK20, Oom13]. **Policy** [HGG08]. **'Political** [AFJZ11, How16b]. **Poly** [MAK06]. **Poly-** [MAK06]. **Polychrome** [CBAA19]. **Polygenic** [ZLC18]. **Polygons** [LRN18b]. **Polyhedral** [LPLPD14]. **Polymorphisms** [SBMG06]. **Polynomials** [Can17, Dem11]. **Polytomous** [ALV07, Hoh18, LL11, OC15]. **pomp** [KNI16]. **Pool** [dLHM09]. **Pool-Adjacent-Violators** [dLHM09]. **popbio** [SM07]. **POPS** [JFDB15]. **Population** [Fie12, Hil10a, JFDB15, LVK+11, SL09, SR16]. **Population-Based** [SL09]. **Populations** [TV11]. **Portable** [Dry09]. **Positions** [CI17]. **Possible** [Law08]. **Posterior** [DN99, Smi07]. **Potentially** [RG07]. **Power** [BLR97, Dem11, HSH07, JMS+09, KSPR16, KMG+13, LT16, LR15b, MR05, MLAN02, Pet97b, LT16]. **poweRlaw** [Gil15]. **POWERLIB** [JMS+09]. **pp** [But15, Gle16, Grö15a, Grö16, Gro08, Han15, Hel15, Hil15a, Hil15b, Hof15, How15a, How15b, How16b, Iac15, Kha15b, Kha15a, Kha16b, Mat15, Mat16a, Nun15, Pos15, Rus15, Zei15, Zei16]. **PPtreeViz** [Lee18]. **Practical** [Eks13, Hil07, Iac15, Iac17, Mat16b, Otn17, Web16, Wic10, Grö16, Grö19, Ros09]. **Practice** [Fox07, GR18b, Nas14]. **Practitioners** [CN18, Kha18c, GL14]. **pre** [Fok20]. **Precision** [BH08a, dVSWAL17]. **Predict** [MBGK18]. **Predicting** [Arc10, Yua07]. **Prediction** [Fok20, HZS21, JFDB15, KMM+17, MIG12, SMM+15, SH07, ZMC21]. **Predictive** [BG18, Kuh08]. **Predictor** [FW18]. **Preference** [CKE20, CKE20]. **Preferences** [HD12]. **Preferential** [PSS20]. **prefmod** [HD12]. **Preliminaries** [Pie05]. **PReMiuM** [LHA+15]. **Preparation** [Kra07]. **Preprocessing** [HIKS11]. **Presence** [FM08]. **PresenceAbsence** [FM08]. **Present** [ZK08]. **Presenting** [TWK03]. **PResiduals** [LSL20]. **Presmoothed** [dUJ13]. **Press** [Grö15a, Han15, Hil15a, Hil15b, How15a, How15b, Zei15]. **Pricing** [TBS14]. **Primal** [LM14]. **Primer** [GvdMW09, Hel18, Soe10, Ros17, Grö13]. **Principal** [Lei10, MW07, PSY20, VKVC15]. **Principles** [Kuk09]. **Priors** [JCPL19, Lee13, LRN18a, ZF15]. **Probabilistic** [BL18, CGH+17, GR16a, GVM16, JKL19, Meu13, MD18, SAR11, SR16, YMB20]. **Probabilities** [AMMRP14, BdUÁ18, Pat16, Som01, VV16, Eks10]. **Probability** [Kha03, KR10a, LQC+12, LSL20, Mal09, vdWG11, San09]. **Probability-Scale** [LSL20]. **Probit** [IV05]. **Problem** [HH07a, Pap16]. **Problems** [EE07, VSV09, Web16, Wol15]. **PROC_R** [Wei12]. **Procedure** [LP13]. **Procedures** [BGH+17, Fot03, Kla18, Som07, Som12, TMW18].

Proceedings [LCK11]. **Process** [BTMB13, BP19b, BG21, But09, EN11, Gra07, GT10, JCPL19, MRC15, PLZ+15, Pen03, SFS12, SKS15, TSN21]. **Processes** [CAA15, Gra16, Har10, KBMB19, KNI16, KLNN20, LHA+15, Pac07, PLPL17, TDRD13, TDRD15]. **Processing** [Bai04, KCCG11, LBC+16, Sól09, Fir03]. **Product** [Sho13, Han15, Hil15a, Hil15b, How15a]. **productCd-111833258X.html** [But15]. **productCd-1118762614.html** [Kha15a]. **profdpm** [Sho13]. **Profile** [LHA+15, Wie04]. **Program** [Bel11b, BM97a, BMGT15, But05, Das06, EC06, HN13, HKB11, HZSW10, Jam99, Kin04, KKH10, KH13, Lan14, LC13, Lec14, MvB14, MHdL12, NE20, Pet97a, Pet97b, Sch06, Som98, XGY06, Hed99, Lum98]. **Programming** [CGH+17, DN17, Hil10b, LH07, SDDD12, Wei12, Wic08a, WG00, dL09b, KN17, MT14, Lan17]. **Programs** [Góm15, JS05, McB06, NK06, SB01, SBL04, VGDM+18]. **Progression** [BVE+15]. **Project** [NRG+17, BFH+14]. **Projected** [BMR14]. **Projection** [Lee18, LZ15]. **Projections** [Coo97, HCW12, LM14, SAR11, SR16, WCHB11]. **Projects** [Bak20]. **Propensity** [HP09, Sek11]. **Proportional** [FH09, Gan15, TKM06, WZQW20, ZQS16, SFHT11]. **Proportional-Odds** [FH09]. **proportions** [MJ00]. **Prototype** [BdMM08]. **Prototypes** [Jos05]. **Providing** [Den16]. **Proximities** [IP08]. **PSAgraphics** [HP09]. **Pseudo** [HZBB20]. **Pseudo-Ranks** [HZBB20]. **Pseudorandom** [AS04, SM12, SLF14]. **PST** [GR16a]. **Psychoco** [WSZ12]. **Psychological** [NGVCFLS19]. **Psychometric** [ECW+12, WSZ12]. **Psychometrics** [Gow16, dLM07]. **psychomix** [FSLZ12]. **PTAk** [Lei10]. **PtProcess** [Har10]. **Public** [HGG08, SSH16]. **Publication** [Hla16a]. **Publication-Quality** [Hla16a]. **Pure** [DC09]. **Purely** [DKT20]. **Purpose** [Kur14, RK14]. **Purposes** [MP06]. **Pursuit** [Lee18]. **pvclass** [ZD17]. **pyJacqQ** [JWHS16]. **pylearn** [LGF+18]. **pylearn-simulate** [LGF+18]. **PyMC** [PHF10]. **pyParticleEst** [Nor17]. **PypeR** [XMW10]. **PySSM** [SBMD14]. **Python** [Mat16b, BFM18, Har15, HHJCRB21, JWHS16, KJ14, MT98, Mül13, Nor17, Pat16, PHF10, SLGB14, SBMD14, XMW10].

Q [LLS15]. **Q-Learning** [LLS15]. **qgraph** [ECW+12]. **QLS** [KS10]. **QoLR** [ASBMB17]. **QTL** [Zho10, HSG12, TV11, Zho10]. **Qualitative** [CBAA19, JvdBP07]. **Quality** [ASBMB17, Hla16a, MG09, PE19, dSdSCLC18]. **qualV** [JvdBP07]. **Quantification** [How15b]. **Quantile** [BV17, Ger14, Kle16, Koe08, SS19]. **Quantile-Based** [Kle16]. **Quantiles** [DGJ+18, Kla18]. **Quantitative** [Hof15, WS11]. **Quantities** [BL18]. **quantspec** [Kle16]. **Quasi** [Can04a, Fir00, KS10, RS08]. **Quasi-deviances** [Can04a]. **Quasi-Least** [KS10, RS08]. **Quasi-variances** [Fir00]. **Questionnaire** [Fri12]. **Questionnaires** [Lal17]. **queuecomputer** [EWMR20]. **Queues** [EWMR20]. **Quizzes** [ZUL14]. **QXLA** [Kla18].

R [BGRR15, Bow10, DN17, Dow16, Dow19, Fay18, GL14, GR17b, GR18a, Gou05, Grö13, Grö15a, Grö17, Grö19, Gro18c, Hel17, Hel18, Hil15b, Hof15, Iac15, Kha17a, KP07, Lal17, Lan17, Lor18, Mat13, McN14, Mor18, MvS07a, Mül16, Otn17, SL09, San07, San09, San10a, Sar09, VM09a, dL05a, dLM07, ADH11, AEL10, ACW12, AR14, AMYR16, Aiz12, Alb16, AGG13, ATF10, AT13, Alm10, AD15, AACRC21, AB17, AWBM18, ASBMB17, ADN15, Arc10, AHvD09, ABC19, ABB$^+$19, AMW14, AB12, AM14, BM07, BG18, BL14, BT05, BDMP15, BK11, BR07, BS15, BFFN19, BP19a, Bar14, BFRP13, BS18, BPP17, BP12, BGH$^+$17, Bat15, BRC$^+$15, BLY18, Bea17, BBGL17, BCHY09, BDKL17, BKT14, BBG12, BB12, BMB16, BIG17, BSVT12, BK17, BdMM15, BP19b, BG21]. **R** [BMvS$^+$07, BLM$^+$15, BVE$^+$15, BN10, Bon18, BPGC14, BDdM11, BPB09, BD18, BYPJ19, BCAB07, Bra15, Bra14, Bra17, BS13, BWMBC21, BPDD08, BKvT$^+$14, BMGT15, BEHB17, Bür17, Bur12, But05, But08a, CF14, CdM10, CSNF18, Cam12, CKE20, Can17, CC08, CG15, CDP20, Car13, CB17, CP11, CFHBK11, CAA15, Cer17, Cha12, CQZ$^+$10, CGBN14, CB21, Cha10, CKSLS12, CP12, CC11, CA17, CKY14, CGC11, CBHK21, CMS$^+$11, CS12, CGC14, CLL17, CFSR15, CHML17, CNZ10, CO16, CM08, Cro20, CF08, CGS09, CJM06, Cul11, CI17, DMB18, DC09, Dah20, DLN17, DHM11, DB13, DBZ$^+$11, DC05, DR20, DMD15, Den16, DH05, DLC06, DW17, DCS20, DM18, DK18, DOV17, DV20, DM19, DPSH18, Duo07, DHF15, DGP08, EWMR20, EN11, EF11, ESO16, ESKHB20, EE07, EVBK19, EBO$^+$13]. **R** [EMU20, EL09, FS10a, FBdlF12, FHM08, Fel12, FT08, FDB12, Fer11, FDGD16, FHH17, Fie12, FBC07, Fir03, Fir05, FO15, FMM$^+$20, FC11, Fok20, FM18, Fox03, Fox05b, FH09, FC12, FL16, FS20, FM08, FBF14, FK17, FKP17, FGEMI12, FNB20, Fuj17, FS10b, GRMS11, GR16a, GRD13, GSD12, Gan15, Gas11, GGC$^+$15, GFPB19, GASA15, GRK$^+$16, GP12, GG16, GKZ16, GK16, GKD14, Gio09, GGK10, GLC$^+$15, GCA12, GFS14, GDMB08, GFC12, Gos11, Gra07, GT10, Gra16, GvdMW09, GVM16, GD21, GW18, Grö06, Grö10b, Grö14, Grö18b, GSW20, GvdL12, GZP14, GZ09, GH11, GKZ12, Gu14, Guh07, GB20, GV12, Had10, HPWdL15, HHB08a, HD10, HBF17, HPD19, HHY06, HH14, HD18, HSL11, Han05, Han06a, Han06b, HW07, Han07a, Han07b, HZBB20, Har10, HWM16, HD12]. **R** [HXY12, HM18, HP09, HH19, HH07b, HMM21, HHV20, Hla16b, HM11, HM16, HO20, HL09, Hof11, HGK$^+$20, HMS16, Hoh18, Høj04, HL07, Høj12, HMR$^+$13, HG14, HI20, HS18, HSG12, HGG08, HK08, HWY18, IP08, IV05, ILS11, ICL16, JvdBP07, Jac11, Jac16, JPM19, Jal19, JM15, JJJ14, JHQ$^+$11, JP16, JGM18, JLH$^+$20, JD15, JCPL19, Joh07, JS05, Jon07, KOS20, KHLF$^+$10, KMC$^+$12, KSHZ04, KMH06, KN05, KL14, Kas16, Kav15, KK15, KS14, Kie08, KWE$^+$17, KE14, KO06, KNI16, KSS$^+$07, Kle16, KM08, KN03, KM14, KG17, KR10a, KY10, Kol16, KK14, KSBZ16, KPSH15, KV13, KMTS14, KT16, Kra07, KPRP$^+$19, KSP15, Kuh08, KR13, KPH$^+$21, Kuo03, LPLPD14, LT16, LAF$^+$17, Lam12, LDHM21, LH12, LRGTA12, LNY$^+$20, LL10, LW16, LJH08, LIL$^+$15, Lee13]. **R** [LM13, LM18, Lee18, LRN18a, LMO$^+$19, Lei10, Lei13, Lei04, LHS08,

LSPvdL17, Len09b, Len16, LR20, LQC^{+}12, LBW18, LM14, LM19, LFF17, LM03, LZHC17, LR15a, LLS15, LL11, LBC^{+}16, LC10, LSL20, LHA^{+}15, LR15b, LRN18b, LRRÁCSGS14, dUJ13, LH14, LX12, LCSC14, Lup09, MdlT20, MRC15, MR12, MF14, MB17, MRV21, MHJS16, MS19, MH07, MdL10, MMB15, MHE20, MHM20, Mar06a, MTPL15, MH15, MB15, MDvdV19, MGFA^{+}20, MBGK18, MQP11, MRHA20, MV17, MF15, MCAP19, MP14, MPM14, MYK07, MZ08, MS11, MMR20, MCM12, Mel16, MJGM10, Meu13, MW07, MH09, MHH17, MVS13, MNT17, MRT^{+}19, MP12, MP06, MW19, ML11, MTvdM15, MBR11, MV14, MHD17, MdUÁC10, MN14, Mug10, MvS07b, MAG^{+}11, Mul14, Mül13, MRL12, Mur03, Mur09, MG09, NK06, NR16, Nag18, Nag21, Nar05]. **R**
[NV11, Nas14, NG07, ND12, NGBK12, NL12, NdSL16, NMM^{+}21, NRD16, NAA17, OH11, OHD17, Obe14, OCRC14, OL17, Oom13, OK14, OWA20, PLZ^{+}15, PPGD15, PP17, Pan18, Pap16, PLRC10, PSS^{+}17, Peb12, PG15, PSY20, Pen03, Pen08b, PJSPC17, PZK^{+}12, PP18, PE19, Pet10, PP11, PR07, Pfa08, PSS20, PV20, Phi10, PU13, PK08, Pir10, PC11, PMD19, PT07, PT09, PPT20, PLLC11, PLR^{+}16, PLPL17, PMM18, QY19, dREP12, RS07, Rec10b, RBB18, RC17, RG07, RJH14, RS05, RBHB15, Riz06, Riz10, Riz16, RD21, RST19, RFKM12, RR11, RMG12, Ros15, Ros12, RGD12, Röv20, dVSWAL17, Ruf09, RVCG19, SF18, SSH16, SFS12, Sar16, SD17, SH17, SH20, SP14, Sav16, SE18, SIR^{+}11, SZ11, Sch11, SME^{+}09, Sch16, SlRC16, Scr13, SR18]. **R**
[Scu10, Scu17, Sek11, SVMMRP17, SAR11, SBMG06, Sho13, SS19, SHFB17, SKS15, SCS13, Smi07, SYC08, SLS^{+}12, SP10, SPS10, SvdLN17, Sól09, SSM21, Spe13, SDJ20, SR07b, SLMV17, SKZ05, SM07, SLG05, Su07, SGHY11, SSV14, SSS^{+}20, TP11, TW11, TKM17, TSN21, TM15, TKM06, TKM07, TMW18, TV11, TDRD13, TDRD15, TB17, TR17, TPE19, TKM15, TMKD17, TMN16, Ten18, TM05, TFH12, TSH20, Thi14, TH21, TFR16, TD07, TR14, TK17, TYH^{+}14, Tiv19, TH08, TBE^{+}21, Tou15, TGJ17, TSV20, TF12, Tus11, USA19, UNBK17, UAK^{+}15, ÜKD09, ÜS10, USHH18, VML12, VW13, VSV09, VG09, Var14, VFV13, VPCS14, Ver18, VKVC15, Ver12, Vie10, VV16, VKM18, VdL09, Vin17, VYD^{+}12, VS10, WGSL12, WDT^{+}12, WMS17, WLK08, WW11, Wan11, Wan13b, WLH^{+}18, WZL20]. **R**
[WCLS20, Was15, Wee10, WB07, WF12, Wei12, Wei02, Wel18, WDM^{+}11, WZQW20, WS11, WST11, WM14, WSZ12, WCHB11, WBEE19, WMR16, WZ17, XMW10, XWHL15, Xie13, XHW20, YZZ^{+}20, YEL18, You10, YMB20, Yua07, ZA17, ZMC21, ZFZ10, ZLHK02, ZK08, ZKJ08, ZC10, ZUL14, ZKG20, ZF15, ZPC^{+}16, ZQS16, ZWH17, ZHZ20, ZP13, ZPZW21, ZD17, dSJdSF14, dLM09a, dLHM09, dLM09b, dLM09c, dWFP11, lGlRGL09, vBGO11, vE17, vdA07, vdA12, vdLdJ21, vdL21, vdWG11, But15, Dem17, Edd09a, Eva14, Gle16, Grö15b, Gro08, Han15, Hel15, Hil15a, How16b, Kha15a, Kha16b, Mat16a, Nun15, Pos15, VM09b, Wil14a, Zei15, Zei16, Arm19, Bar18, Bow09, Bul06, Chr09, CH11, Dem18b, Dow16, Dow17, Edd09b, Edd09c, Edd11, Edd12b, Edd12a, Eva11, Fri12, GR16b, Gou10]. **R**
[Grö11, Grö18a, Hel16a, Hil06, Hil10b, How11, How16a, Kha18b, Leo10,

Lor17, Mai06, Mal09, Mat15, Mun14, Oom10, Pav16, Pav20, Rui16, Rus15, San10b, San11, She11, Soe10, Str10, Wic08b, Wic08a, WG10, Yal10, Zho10, dL05b, dL06, dL09a, dL09c, dL09b]. **R-based** [BM07]. **R-Friendly** [Nag21]. **R-INLA** [BGRR15, LR15a, MMR20]. **R-Menu** [BP12]. **R-php** [MP06]. **R-Squared** [Rec10b]. **R/MATLAB** [VFV13]. **R/qtl** [Zho10]. **r2** [Grö15a]. **R2GUESS** [LBC+16]. **R2MLwiN** [ZPC+16]. **R2WinBUGS** [SLG05]. **Radiation** [Lam12]. **RAGE** [PSW07]. **Raju** [Cer17]. **ramps** [SYC08]. **Random** [Bea17, Bre04, BILL07, CF14, CB21, CNLR19, Cro20, DB13, Dry09, FS10b, JJJ14, KCCG11, KJ14, Kur14, LCD18, MR12, MTW04, MIG12, MHH08, PB15, Pat16, PSW07, Röv20, Sar16, SMM+15, SL18, TKM17, VDT14, WZ17, XTL13, YS12, ZWH17, dI17, MT00, PL05, SMDS11]. **Random-Effects** [Röv20]. **RandomFields** [SMM+15]. **Randomization** [Gre17, USHH18, WWG09, ZK12]. **Randomization-Based** [ZK12]. **Randomized** [EVBK19, Gre17, HM18, MHT07, RSW15]. **randomizeR** [USHH18]. **randomLCA** [Bea17]. **Randomly** [MdUÁC10]. **Randomness** [MT02]. **Range** [Kla18]. **ranger** [WZ17]. **Rank** [Fri06, JLH+20, New05, TM05]. **Rank-Based** [JLH+20, TM05]. **rankdist** [QY19]. **Ranking** [QY19]. **Rankings** [HD12]. **Ranks** [HZBB20]. **RAppArmor** [Oom13]. **Rare** [KZ03]. **RARtool** [RSW15]. **Rasch** [ALV07, DBBD07, FSLZ12, Hoh18, MH07, OC15, VHM07]. **Rate** [SAR11]. **Rates** [MP14]. **Ratings** [HD12]. **Ratio** [MVS13, Wan13a]. **Rational** [BH07, BH08b]. **Ratios** [Mar06b, McB06]. **Raton** [Gle16, Grö15a, Grö16, Kha16b, Zei15]. **RATS** [Doa11]. **Rcapture** [BR07]. **Rchoice** [Sar16]. **RcmdrPlugin.survival** [FC12]. **Rcpp** [EF11]. **RcppEigen** [BE13]. **Ready** [MY13, VYD+12]. **Ready-to-Use** [VYD+12]. **REALCOM** [CGK11]. **REALCOM-IMPUTE** [CGK11]. **Reasoning** [YMB20]. **Reassessment** [SMS13]. **REBayes** [KG17]. **Recapture** [BR07, YSH15]. **Receiver** [LW03]. **Recipe** [SH17]. **recmap** [Pan18]. **Recognition** [Mai07]. **Recognize** [Coo97]. **Recording** [BK17]. **Recovering** [PLR+16]. **Rectangular** [Pan18]. **Recurrence** [BFC02]. **Recurrent** [KMM+17]. **Recursive** [Mey13]. **Redistricting** [AM11]. **Reduced** [FS12, Fri06]. **Reduced-Rank** [Fri06]. **Reduction** [AR14, CFT11, CHML17, MDvdV19, NMM+21, Wei02]. **Redundancy** [LV16]. **Redux** [Koe08]. **Reference** [Kle16]. **Referenced** [FBG15, FBC07]. **REGCMPNT** [Bel11b]. **Regimen** [WMS17]. **Region** [Bra14]. **Regional** [LQC+12]. **Regionally** [KPRP+19]. **Regions** [BM12, Som98, Som01]. **Registration** [BLY18]. **Regression** [AS02, AB17, ABS01, Bar18, BFRP13, BRC+15, Bel11b, BV17, BdMM15, Bon18, BKL05, BRG20, BR17, Car13, CB21, CGC11, CRW05, CNZ10, DLN17, DSD13, DLC06, Dha10, DM18, DPSH18, DS15, Edl04, FS12, FW18, Ger14, GKZ16, Gou10, Gra07, Grö06, GZP14, GKZ12, HM18, Hel16b, Hil09a, HHV20, HGK+20, Jam99, JLZJ05, JFDB15, KB16, KN05, KL14, KBMB19, KZ03, Koe08, KV13, Lei04, Len09a, LM14, LBC+16, LHA+15, LGF+18, LWOW18, Mai09a, Mai09b, MHM20, MW10, MV17, MH05, MW07, Mül16, Pet97a, PRS18, RT14, RBHB15, SS19, SSM21, TFR16, TR14, TGJ17, UAK+15, VKVC15, WMS17, WLK08, Wei02, WMR16, XWHL15, ZMG07, ZLHK02, ZKJ08, ZQS16, dL09a, Hed99, Grö16, Der10, Hel16b]. **Regression-Based** [WMS17]. **Regression/Item** [CGC11]. **Regular** [ZG05]. **Regularization** [FHT10, RT14, Sch11, SFHT11]. **Regularized** [FHH17, SHBZ14]. **Reject** [Hüs06]. **relaimpo** [Grö06]. **Related** [ASBMB17, BL18, DR11, MAK06]. **Relational** [But08a]. **Relationships** [ECW+12]. **Relative** [DHM11, DM18, Grö06, PP18, Pet97a, Wan13a]. **Relevant** [CGBN14]. **relevent** [MB15]. **Reliable** [AGM07]. **relsurv** [PP18]. **rEMM** [HD10]. **Remote** [Gos11, SR07a, ADN15]. **Renewal** [KBMB19]. **Repeated** [Fri10, KAK05, LW03]. **Replacement** [Han07a]. **Replicated** [Cha03]. **Reporting** [FR15]. **reporttools** [Ruf09]. **Representation** [HHB+08b]. **Representative** [Kon13]. **Reproducibility** [BBGL17]. **Reproducible** [LT16, SDDD12, SvdLN17, Wil14b]. **repsample** [Kon13]. **Resampling** [Kil16, KAK05]. **Research** [HBF17, LT16, LNY+20, Rus15, SDDD12, Str10, Hel15, Wil14b, Chr11, Hil09b]. **Researchers** [Kha18c]. **reshape** [Wic07]. **Reshaping** [Wic07]. **Residual** [LSL20]. **Residuals** [FW18, LSL20]. **Resistant** [Can04b, Con03, FS12]. **Resolution** [BM07]. **Resonance** [CMS+11, KCCG11, TW11, WS11]. **Resource** [Din06]. **Response** [AW16, Arc10, Bon18, CGK11, Cha12, Cha16, CGC11, CO16, Cur10, DBZ+11, DP12, FEvdL07, Had10, HM18, HZSW10, Joh07, Len09b, MR12, MPM14, MH05, MTvdM15, NGVCFLS19, Riz06, RSW15, Whe14, WB08, WEH11]. **Response-Adaptive** [RSW15]. **Response-Surface** [Len09b]. **Responses** [FEvdL07, GSD12, GHR18, KR13, LBC+16, MTvdM15, Tou15, ZC10]. **Restoring** [BK17]. **Restricted** [Hüs06, KH13]. **Results** [BK17, FR15, TWK03]. **Retention** [KSS+07]. **Retrieve** [SSS+20]. **Review** [Ach09, Arm19, Ban16, Bar18, BMR14, Bow09, Bow10, Boy05, Bul06, But15, Chr09, Chr11, CH11, Cox07, Dem11, Dem17, DN17, Dem18a, Dem18b, Der10, Dow16, Dow17, Dow18, Dow19, Edd09b, Edd09a, Edd09c, Edd11, Edd12b, Edd12a, Eks10, Eks13, Ell09, Eva11, Eva14, Fay18, Fox05a, Fri12, Gen06, Gle16, GL14, GR16b, GR17a, GR17b, GR18a, Gou05, Gou10, GvdV16, Grö10a, Grö11, Grö13, Grö15b, Grö15a, Grö16, Grö17, Grö18a, Grö19, Grö21, Gro18c, Gro08, Gum07, Ham10, Han15, Har08, Hel15, Hel16a, Hel16b, Hel17, Hel18, Hel20, Hil06, Hil07, Hil09a, Hil09b, Hil10b, Hil10a, Hil15a, Hil15b, Hof15, How11, How15a, How15b, How16a, How16b, Iac15, Iac17, JS13, Kar06, Kha15b, Kha15a, Kha16a, Kha16b, Kha16c, Kha17a]. **Review** [Kha17b, Kha18a, Kha18b, Kha18c, Kha20, Kil16, KN17, Kuk09, Lal16, Lal17, Lan17, Len09a, Leo10, Lor17, Lor18, Mac12, Mai06, Mai07, Mai09a, Mai09b, Mai08, Mai09c, Mal09, Mat13, Mat15, Mat16b, Mat16a, McN14, MT14, Mor18, Mül16, Mun14, Mur05, Mur06, Nun15, Oom10, Otn17, Pav16, Pav20, Pie05, Pos15, Ros09, Ros08, Ros17, Rui16, Rus15, Sab07, SL09, San06, San07, San09, San10b, San10a, San11, SCD07, Sar09, Sch08, She11, Soe10, Spa06, Sto12, Str10, Unw09, VM09b, VM09a, VM10, Web16, Wic08b, Wic08a, Wic10, WG10, Wil14a, Wil09, Wil14b, Xu06, Yaf07, Yal10, Zei15, Zei16, Zho10, dL05b, dL05c, dL05a, dL06, dL07, dL08, dL09a, dL09c, dL09b, dL12]. **Reweighted** [Pet97b]. **rFerns** [Kur14]. **rft1d** [Pat16]. **Rgbp** [TKM17]. **rgenoud** [MS11]. **RgoogleMaps** [LR15b]. **RGtk2** [LL10]. **Rich** [AB12]. **Richness** [SP05, Wan11]. **Riemannian** [MRHA20]. **RinRuby** [DC09]. **Risk** [DHM11, DM18, MS19, SZ11, Wan13a, WB08, WEH11]. **Risks** [Pet97a, Put11, dWFP11]. **RKWard** [RFKM12]. **Rmalschains** [BMB16]. **RMatlab** [VFV13]. **RMatlab-app2web** [VFV13]. **rmcfs** [DK18]. **Rmixmod** [LIL+15]. **RNA** [GD21]. **RNA-Seq** [GD21]. **RNetLogo** [Thi14]. **RNGs** [Mar03]. **Robert** [Pos15]. **Robin** [Gle16]. **RobPer** [TFR16]. **Robust** [AMYR16, BGH+17, CCF19, Can04a, CYK+09, Jam99, KSS+07, Kol16, KSBZ16, LH12, Mil17, Str04, TFR16, TF09, VW13, WM18, Wie04, ZFZ10, dL06]. **robustlmm** [Kol16]. **robustloggamma** [AMYR16]. **ROC** [Sac17]. **Roger** [HH14]. **ROI** [TSH20]. **Roll** [PLLC11]. **Root** [Lup09]. **ROPTLIB** [MRHA20]. **Rotations** [LSvdVK09]. **Routes** [vE17]. **Routine** [CKY14, GR18b]. **Routines** [LM14, Mil04, Mül13]. **rpanel** [BCAB07]. **rpartOrdinal** [Arc10]. **rpartScore** [GSD12]. **RProtoBuf** [ESO16]. **Rqc** [dSdSCLC18]. **RRreg** [HM18]. **rscala** [Dah20]. **RSKC** [KSBZ16]. **rsm** [Len09b]. **RSNNS** [BB12]. **rSoNIA** [BdMM08]. **Rssa** [GKSU15]. **RStudio** [Grö15a]. **Rtadf** [Cas17]. **rTensor** [LBW18]. **Rubba** [Iac15]. **Rubens** [How15b]. **Ruby** [DC09]. **Rule** [Fok20, RBHB15]. **Rule-Based** [RBHB15]. **Rules** [HGH05]. **Run** [ECK04, EC06, LC13, Lec14, ZPC+16]. **runjags** [Den16]. **runmixregls** [Lec14]. **runmlwin** [LC13]. **Running** [FK17, SLG05]. **Ruxton** [Han15]. **Rweb** [Ban99].

S [BLR97, How16b, dL05a, BH07, BH08a, BH08b, But05, Can04b, Con03, HC05, Kuo03, SP05, WLK08, Wie04, ZG11, Ziv11, Fox05a, SCD07]. **S-PLUS** [dL05a, But05, Can04b, Con03, HC05, Kuo03, SP05, ZG11, Wie04, SCD07, Fox05a]. **S3** [ZG05]. **S4** [KSHZ04, KR10a, RK14]. **SAEM** [CLL17]. **saemix** [CLL17]. **Safety** [LNY+20, WEH11]. **Salesperson** [HH07a]. **Sampaio** [How15b]. **Sample** [BH08a, BH08b, Hüs06, KAK05, LQC+12, MVS13, MLAN02, PLRC10, TH08, WMR16, XGY06, BH07]. **Sampled** [MGG+04]. **Sampler** [MHJS16, VHM07]. **SamplerCompare** [Tho11]. **Samples** [iM16, Lum04]. **sampleSelection** [TH08]. **Sampling** [AH08, Bar14, BGSC10, BFM18, BH08a, BH08b, CC11, GKZ16, Han07a, Kie08, Kon13, MRT+19, PG15, VSV09, Ban16]. **SamplingStrata** [Bar14]. **Sandboxing** [Oom13]. **Sandwich** [Zei06]. **sanon** [KK15]. **Sarkar** [Gro08]. **SAS** [GL14, Kha15a, AS02, BMGT15, Dha10, FS13, Fri06, GHR18, Gos14, Gre17, JMS+09, Jur15, KCM08, KM16, KS10, LVK+11, LS02a, Law08, LSC09, LH07, LG11, LV16, MH05, NO06, OC15, Pan09, PKC+20, Rec10a, Rec10b, SED14, Sel11, SH09, SR07a, SB01, TR14, VDT14, VGDM+18, WWG09, Wei12, XM14, Yua11, ZCI+16, ZK12, Wil09, Der10, Grö10a, Har08, JS13, Kha18a, Len09a, Oom10, Spa06]. **SAS-Based** [FS13]. **SAS-IML** [SB01]. **SAS/IML** [AS02, JMS+09, KCM08, NO06, Pan09, ZK12]. **SAS(R)**

[MT14]. **SASweave** [LH07]. **Satellite** [MCAP19]. **Saturation** [PRS18]. **SAVE** [PPGD15]. **SC'11** [LCK11]. **Scala** [Dah20]. **Scalable** [KEW13, NL12, ZWH17]. **Scale** [AGZ19, CB17, CFHBK11, DCS20, Gra16, HN13, Lec14, LSL20, PCL13, SR07b, TKM07, vdA07, vdA12]. **Scales** [HR14, MHM20, PLR$^+$16]. **Scaling** [GvdV16, KM08, MdL10, PLLC11, ÜKD09, dL05c, dLM09a, dLM09b]. **Scatterplot3d** [LM03]. **Schemes** [TDRD15]. **School** [HJS16]. **Science** [Dow17, DGP08, Hel20, HHJCRB21, Iac17, Mai09c, San09, Str10, How15b, Lor17]. **Sciences** [Lan14, Mun14, SVMMRP17, Web16]. **Scientific** [DN17, HRBP15, Hil10b, How15a, Kar06]. **Scientist** [Grö18a]. **Scilab** [Das06]. **Score** [Alb16, ABC19, HP09, Sek11, dSJdSF14]. **scoringRules** [JKL19]. **Scrambled** [Vig16]. **Scraping** [Iac15]. **Screening** [PE19, SF18]. **Scripting** [dL97]. **Scythe** [PQM11]. **sdcMicro** [TKM15]. **SDD** [BDMP15]. **Seamless** [EF11]. **Search** [AEL10, BMB16, Esm14, RPC15]. **Searching** [GFC12]. **Seasonal** [KMTS14, SE18]. **SEATS** [SE18]. **Seattle** [LCK11]. **Second** [ECK04, RBN19, VM09b, dL05c]. **Security** [Oom13]. **Segmentation** [BLY18, HKL09]. **Segmented** [Mug10]. **Segregation** [Tiv19]. **Select** [CC08, Gos14]. **Selecting** [CDP20, LRRÁCSGS14]. **Selection** [AS02, CdM10, Cal07, CNLR19, DK18, HPWdL15, HGK$^+$20, HMS16, KR10b, LAF$^+$17, LBC$^+$16, MLMK12, ND12, Ntz02, Sch11, SR18, SH09, TMW18, TH08, WF12, WZQW20, WMR16, Wol15, ZA17]. **Selective** [SH14]. **Self** [WB07, WK18]. **Self-** [WB07]. **Self-Organizing** [WK18]. **Semi** [Cul11, Hua20, JHQ$^+$11, KL14, KSP15, LIL$^+$15, Nas05, NMB15, OH11, SP14, VGDM$^+$18, XHW20]. **Semi-** [JHQ$^+$11, SP14]. **Semi-automatic** [Nas05]. **Semi-Confirmatory** [Hua20]. **Semi-Continuous** [VGDM$^+$18]. **Semi-Markov** [KSP15]. **Semi-Parametric** [Cul11, KL14, NMB15, XHW20]. **Semi-Supervised** [Cul11, LIL$^+$15]. **semiliterate** [Lum98]. **SemiMarkov** [KSP15]. **Semiparametric** [BP19a, Bur12, GRS12, Gra07, LWOW18, MW10, MGH18]. **SemiParSampleSel** [WMR16]. **semPLS** [ML12]. **Sense** [Wic10]. **Sensing** [Gos11]. **Sensitivity** [FS20, GT10, HPK18, SP10]. **Separation** [FS12, MNT17, NMM$^+$21]. **Separation-Resistant** [FS12]. **Seq** [GD21]. **seqHMM** [HH19]. **SeqNet** [GD21]. **Sequence** [HNCI18, HH19, MB15, VV16]. **Sequences** [GRMS11, GR16a, Mel16, OH11]. **Sequencing** [dSdSCLC18]. **Sequential** [AH08, BG21, CGRvD15, CC11, GG16, Joh09, JMD08, Ros15, Was15, Zho15]. **Sequentially** [MMM12]. **Serial** [BDMP15]. **Serialization** [ESO16]. **seriation** [HHB08a]. **Series** [BFC02, Bra15, CN13, DS15, Edd09a, HK08, Kas16, Kha17a, KT10, LDHM21, LFF17, Lor18, MGG$^+$04, MCAP19, MYK07, MV14, NMM$^+$21, Pen08a, SSH16, San10b, San11, SCD07, VdL09, Yaf07, ZG05]. **Server** [dL97]. **Server-side** [dL97]. **Service** [SGK03]. **Set** [CGBN14, Góm15, HW07, Hüs06, LPLPD14, SBL04, dLHM09]. **Sets** [BL18, BDdM11, HGH05, MH09]. **SFAMB** [HB17]. **sgmcmc** [BFFN19].

Shaken [GKZ12]. **Shape** [LPLPD14, SR07b]. **Shaped** [PG15]. **Shapes** [Coo97]. **Shared** [BP19a, MGH18]. **Sharpening** [Wol12]. **Shelf** [DV20]. **Short** [ECK04, EC06]. **Short-Run** [EC06]. **Shrinkage** [DSH16]. **Shrinking** [CQZ+10]. **side** [dL97]. **Sided** [BH08a, BH08b, SL11, BH07, MJ00]. **Sightability** [Fie12]. **SightabilityModel** [Fie12]. **Significance** [CFHBK11]. **Significant** [GFC12]. **Signs** [NO06]. **Sim.DiffProc** [GB20]. **simcausal** [SvdLN17]. **simecol** [PR07]. **SIMEX** [HXY12]. **simFrame** [ATF10]. **Similarity** [SWAF15]. **SimInf** [WBEE19]. **simmer** [USA19]. **Simon** [Iac15]. **simPH** [Gan15]. **Simple** [BV02, BCAB07, GC18, MN14, ZFZ10, dLM09c]. **SimpleITK** [BLY18]. **Simplex** [ZQS16]. **simplexreg** [ZQS16]. **simPop** [TMKD17]. **Simreg** [JLZJ05]. **simsurv** [BWMBC21]. **Simulate** [AH08, BMvS+07, DC05, HHB+08c, LGF+18]. **Simulated** [LGF+18]. **Simulating** [AS04, BS18, BVE+15, BWMBC21, GRD13, GD21, Han07b, MCM12]. **Simulation** [ATF10, ABS01, AHvD09, BGH+17, BM97a, BILL10, BFH+14, Coe00, Dem11, DN17, DCS20, EWMR20, HHB+08b, Hil10b, IMR17, KSPR16, Kuk09, LT16, MGFA+20, MGH18, MN14, PK08, SMM+15, SvdLN17, TMKD17, USA19]. **Simulation-Based** [KSPR16]. **Simulations** [BILL07, CGC11, HM16, WBEE19]. **Simulator** [MRC15, MLAN02, BB12]. **SimultAn** [ZG11]. **Simultaneous** [HH07b, JLZJ05, KPSH15, KR13, SH14, SB01, ZG11, MJ00]. **Single** [KWE+17, SBMG06, Su07, YZZ+20]. **Single-Agent** [YZZ+20]. **Single-Arm** [KWE+17]. **Singular** [GKSU15, LZ17, LS02b]. **SIS** [SF18]. **Size** [FS13, LQC+12, MLAN02, Wol15]. **Sizes** [Kel07, MBGK18]. **Skew** [LS02a, LM13, LM18, PCL13]. **Skew-Normal** [PCL13]. **Skew-symmetry** [LS02a]. **slfm** [DM19]. **sm** [Scr01]. **SMACOF** [dLM09b]. **Smale** [GP12]. **Small** [HMM21, MJ00]. **SMCTC** [Joh09]. **Smirnov** [DKT20, SL11]. **Smooth** [Pat16]. **SmoothHazard** [TGJ17]. **Smoothing** [Bar18, Cam12, Can04b, Con03, CHML17, Gu14, LG11, MPM14, NW04, Pac07, PT07, PT09, PPT20, Scr01]. **Smoothing-Spline-Based** [LG11]. **sms** [Kav15]. **sna** [But08b]. **Snippet** [Aiz12, AD15, AW16, BDMP15, BK11, Bak20, BS18, Bel11a, CKE20, CG15, Car13, Car15, Cas17, CBAA19, CO16, Cur10, DMB18, DP12, Dha10, Dry09, EC16, Esm14, FS12, FKP17, GF15, Gos14, GC18, Gre17, GVM16, HF18, Han06a, HW07, Han07a, HZBB20, Har15, HXY12, Hla16a, Hof11, Hoh18, Hug07, Jal19, Jur15, KM16, Kam08, Kla18, Kon13, LSC09, LW16, Lec14, LR20, LQC+12, LZ17, LG11, LRN18b, LV16, MF14, MB17, MHJS16, MTPL15, MBGK18, MF15, MP14, MHT07, NK06, Nag21, NAA17, OC15, Pan09, Pan18, Pap16, Pav15, PSY20, Pen08a, PZK+12, PKC+20, PV20, Phi10, Rec10a, Rec10b, RPC15, RBB18, RGK20, Ruf09, Sac17, SWAF15, SBMG06, SGS+14, TKM07, TR14, VSV09, VDT14, WWG09, WZ16, WM18, Wei12, WEH11, Wol15, XMW10, YS12, dSJdSF14]. **Snippet** [dSdSCLC18]. **SNP** [BGM06]. **SNP_NLMM** [VDT14]. **SNPMClust** [EC16]. **sns** [MHJS16]. **SNSequate** [Gon14]. **Social**

[AT13, But08b, DCS20, Iac17, MRV21, Mai09c, Ost20, Str10, Web16]. **SOCR** [CCD09, Din06]. **Software** [AR14, AJ11, BFC02, BV02, BGM06, But05, CGK11, CKO11, DN99, FF14, FR07, Fri06, Gen06, GL14, HHB$^+$08b, HK20, IKP09, JLZJ05, JFDB15, JMD08, JMS$^+$09, KCM08, Kar06, Kha03, KPSH15, Kra07, KMM$^+$17, LC13, Lec14, LSM$^+$19, Mac12, Mat16c, Men11, MR05, NRG$^+$17, NV11, NW04, Ngu07, NGBK12, OO11, PBR15, Ros08, RSW15, Sek11, Sto12, SKZ05, Str04, TWK03, WKL11, WB08, Wie04, Yaf07, Yua11, Yuc11, ZMG07, dI17, Edl04, Boy05, Ell09, FL16]. **Solar** [Lam12, Lam12]. **Solutions** [Kha16c]. **Solver** [Tou15]. **Solving** [SPS10, VG09, Web16]. **Some** [BGRR15, JLZJ05, MT02, Mon06, Tak16, Tie05, Tiv19]. **Somerville** [Som07]. **Sonja** [Kha15a]. **Sons** [But15, Hel15, Iac15, Kha15a]. **Sorted** [Har15]. **Source** [DKMT11, MNT17, NMM$^+$21, PQM11]. **Souza** [How15b]. **spa** [Cul11]. **Space** [CDP20, CKO11, DLC06, Doa11, DG11, FF14, Góm15, Jal19, JWHS16, Luc11, Men11, Mur15, Pel11, PA11, PP11, PLR$^+$16, Sel11, SBMD14, ÜS10, Van11, VP18, Ziv11]. **Space-Time** [CDP20, FF14, JWHS16]. **Spaces** [ZPZW21]. **spacetime** [Peb12]. **spam** [FS10b]. **sparr** [DHM11]. **Sparse** [AMW14, Bra14, Bra17, FS10b, HD16, KN03, KSBZ16, LGF$^+$18, SCL$^+$18]. **sparsebn** [AGZ19]. **sparseHessianFD** [Bra17]. **SparseM** [KN03]. **SpaSM** [SCL$^+$18]. **spate** [SKS15]. **Spatial** [Alm10, BT05, Ban16, Bar96, BP15, BGRR15, BDdM11, BGSC10, DHM11, Eva14, FBC07, GGC$^+$15, GLC$^+$15, Gra16, LRGTA12, Lee13, LR15a, LRN18b, MP12, NO06, PPGRMB21, PBR15, PG15, PV14, Pir10, SYC08, TDRD13, TDRD15, TR17, VPCS14, ZMC21, ZHZ20, Gle16, GR16b]. **Spatial-Temporal** [LRN18b]. **Spatially** [RC17]. **Spatially-Varying** [RC17]. **Spatio** [BS15, FBG15, GRD13, HRBP15, LRN18a, Lei10, MHH17, Peb12, SKS15, TDRD13, ZMC21]. **Spatio-Temporal** [BS15, FBG15, GRD13, HRBP15, LRN18a, Lei10, MHH17, Peb12, SKS15, TDRD13, ZMC21]. **Spatiotemporal** [TDRD15]. **spatstat** [BT05]. **spatsurv** [TR17]. **spBayes** [FBC07, FBG15]. **spBayesSurv** [ZHZ20]. **Special** [KP07, MvS07a, Put11, TW11, dLM07, AFJZ11]. **Species** [GVM16, MBGK18, SP05, Wan11, Wan11]. **Specific** [MS19, PRS18, She10]. **Specification** [MHH08]. **Spectra** [Kra07]. **Spectral** [BMR14, JCPL19, Kle16, MGG$^+$04]. **spectralGP** [Pac07]. **spectrino** [Kra07]. **Spectrometry** [CS12]. **Spectroscopic** [MvS07b]. **Spectroscopy** [MvS07a]. **Spectrum** [BM07, GKSU15]. **speedR** [VYD$^+$12]. **Spelling** [HI20]. **Spherical** [FDGD16, HFKB12]. **sphet** [Pir10]. **Spider** [EL09]. **Spider-Man** [EL09]. **spikeSlabGAM** [Sch11]. **Spline** [CRW05, FS20, Gu14, LG11, WMR16]. **Splines** [Cam12, WLK08]. **Split** [Wic11]. **Split-Apply-Combine** [Wic11]. **splittable** [SLF14]. **splm** [MP12]. **SPmlficmcm** [NMB15]. **SPODT** [GGC$^+$15]. **Spread** [GW18, WBEE19]. **Spreading** [MGFA$^+$20]. **Spreadsheets** [ALO$^+$10, MY13]. **Springer** [Gro08, Hof15, How16b, Kha15b, Mat15, Mat16a, Nun15, Pos15, Rus15, Zei16]. **Springer-Verlag**

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