

Dianne Cook

List of Publications by Year in descending order

Source: [//exaly.com/author-pdf/4221899/publications.pdf](https://exaly.com/author-pdf/4221899/publications.pdf)

Version: 2024-02-01

112
papers

3,410
citations

170677

28
h-index

170870

51
g-index

149
all docs

149
docs citations

149
times ranked

3298
citing authors

#	ARTICLE	IF	CITATIONS
1	ggbio: an R package for extending the grammar of graphics for genomic data. <i>Genome Biology</i> , 2012, 13, R77.	9.1	303
2	Interactive High-Dimensional Data Visualization. <i>Journal of Computational and Graphical Statistics</i> , 1996, 5, 78-99.	1.8	213
3	Interactive High-Dimensional Data Visualization. <i>Journal of Computational and Graphical Statistics</i> , 1996, 5, 78.	1.8	176
4	CGobi: evolving from XGobi into an extensible framework for interactive data visualization. <i>Computational Statistics and Data Analysis</i> , 2003, 43, 423-444.	1.3	164
5	Grand Tour and Projection Pursuit. <i>Journal of Computational and Graphical Statistics</i> , 1995, 4, 155-172.	1.8	150
6	XGobi: Interactive Dynamic Data Visualization in the X Window System. <i>Journal of Computational and Graphical Statistics</i> , 1998, 7, 113-130.	1.8	144
7	XGobi: Interactive Dynamic Data Visualization in the X Window System. <i>Journal of Computational and Graphical Statistics</i> , 1998, 7, 113.	1.8	111
8	Projection Pursuit Indexes Based on Orthonormal Function Expansions. <i>Journal of Computational and Graphical Statistics</i> , 1993, 2, 225.	1.8	105
9	Statistical inference for exploratory data analysis and model diagnostics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009, 367, 4361-4383.	3.5	101
10	Graphical inference for infovis. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2010, 16, 973-979.	4.5	93
11	BarleyBase--an expression profiling database for plant genomics. <i>Nucleic Acids Research</i> , 2004, 33, D614-D618.	13.9	88
12	The Generalized Pairs Plot. <i>Journal of Computational and Graphical Statistics</i> , 2013, 22, 79-91.	1.8	88
13	plyranges: a grammar of genomic data transformation. <i>Genome Biology</i> , 2019, 20, 4.	9.1	86
14	Grand Tour and Projection Pursuit. <i>Journal of Computational and Graphical Statistics</i> , 1995, 4, 155.	1.8	69
15	tourr : An R Package for Exploring Multivariate Data with Projections. <i>Journal of Statistical Software</i> , 2011, 40, .	3.8	65
16	Projection Pursuit for Exploratory Supervised Classification. <i>Journal of Computational and Graphical Statistics</i> , 2005, 14, 831-846.	1.8	64
17	Identification of candidate genes involved in early iron deficiency chlorosis signaling in soybean (<i>Glycine max</i>) roots and leaves. <i>BMC Genomics</i> , 2014, 15, 702.	2.9	63
18	MetNet: Software to Build and Model the Biogenetic Lattice of <i>Arabidopsis</i> . <i>International Journal of Genomics</i> , 2003, 4, 239-245.	1.6	57

#	ARTICLE	IF	CITATIONS
19	Dynamic graphics in a GIS: More examples using linked software. <i>Computers and Geosciences</i> , 1997, 23, 371-385.	4.3	54
20	Validation of Visual Statistical Inference, Applied to Linear Models. <i>Journal of the American Statistical Association</i> , 2013, 108, 942-956.	3.4	44
21	Visualization of data. <i>Current Opinion in Biotechnology</i> , 2000, 11, 89-96.	6.8	40
22	Gaining insights into support vector machine pattern classifiers using projection-based tour methods. , 2001, , .		36
23	Visualizing statistical models: Removing the blindfold. <i>Statistical Analysis and Data Mining</i> , 2015, 8, 203-225.	2.7	36
24	Replication protein A subunit 3 and the iron efficiency response in soybean. <i>Plant, Cell and Environment</i> , 2014, 37, 213-234.	6.0	35
25	Graphical Tests for Power Comparison of Competing Designs. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2012, 18, 2441-2448.	4.5	34
26	Manual Controls for High-Dimensional Data Projections. <i>Journal of Computational and Graphical Statistics</i> , 1997, 6, 464-480.	1.8	33
27	XGobi vs the C2: Results of an experiment comparing data visualization in a 3-D immersive virtual reality environment with a 2-D workstation display. <i>Computational Statistics</i> , 1999, 14, 39-51.	1.5	33
28	Computational Methods for High-Dimensional Rotations in Data Visualization. <i>Handbook of Statistics</i> , 2005, 24, 391-413.	0.3	32
29	Glyph maps for visually exploring temporal patterns in climate data and models. <i>Environmetrics</i> , 2012, 23, 382-393.	1.4	31
30	Transcriptomic responses to diet quality and viral infection in <i>Apis mellifera</i> . <i>BMC Genomics</i> , 2019, 20, 412.	2.9	29
31	Interactive visualization of hierarchical clusters using MDS and MST. <i>Metrika</i> , 2000, 51, 39-51.	0.9	28
32	A projection pursuit index for large p small n data. <i>Statistics and Computing</i> , 2010, 20, 381-392.	1.5	28
33	A New Tidy Data Structure to Support Exploration and Modeling of Temporal Data. <i>Journal of Computational and Graphical Statistics</i> , 2020, 29, 466-478.	1.8	26
34	Using Graphics and Simulation to Teach Statistical Concepts. <i>American Statistician</i> , 1996, 50, 342-351.	1.6	25
35	Manual Controls for High-Dimensional Data Projections. <i>Journal of Computational and Graphical Statistics</i> , 1997, 6, 464.	1.8	24
36	MetNet: Systems Biology Tools for Arabidopsis. , 2007, , 145-157.		24

#	ARTICLE	IF	CITATIONS
37	Model Choice and Diagnostics for Linear Mixed-Effects Models Using Statistics on Street Corners. <i>Journal of Computational and Graphical Statistics</i> , 2017, 26, 478-492.	1.8	22
38	Orca: A Visualization Toolkit for High-Dimensional Data. <i>Journal of Computational and Graphical Statistics</i> , 2000, 9, 509-529.	1.8	21
39	Linking ArcView [®] and XGobi: Insight behind the Front End. <i>Journal of Computational and Graphical Statistics</i> , 2000, 9, 470-490.	1.8	19
40	Grand Tours, Projection Pursuit Guided Tours, and Manual Controls. , 2008, , 295-314.		19
41	Data Visualization and Statistical Graphics in Big Data Analysis. <i>Annual Review of Statistics and Its Application</i> , 2016, 3, 133-159.	7.5	19
42	Impact of network constraining on the terrestrial reference frame realization based on SLR observations to LAGEOS. <i>Journal of Geodesy</i> , 2019, 93, 2293-2313.	3.6	19
43	Visually Exploring Missing Values in Multivariable Data Using a Graphical User Interface. <i>Journal of Statistical Software</i> , 2015, 68, .	3.8	19
44	Visual Data Mining In Atmospheric Science Data. <i>Data Mining and Knowledge Discovery</i> , 2000, 4, 69-80.	3.8	17
45	The plumbing of interactive graphics. <i>Computational Statistics</i> , 2009, 24, 207-215.	1.5	17
46	Using visual statistical inference to better understand random class separations in high dimension, low sample size data. <i>Computational Statistics</i> , 2015, 30, 293-316.	1.5	17
47	PPTree: Projection pursuit classification tree. <i>Electronic Journal of Statistics</i> , 2013, 7, .	0.7	16
48	An algorithm for deciding the number of clusters and validation using simulated data with application to exploring crop population structure. <i>Annals of Applied Statistics</i> , 2013, 7, .	1.1	15
49	Exploring Gene Expression Data, Using Plots. <i>Journal of Data Science</i> , 2007, 5, 151-182.	0.9	15
50	Restoring Rotation Center in Total Hip Arthroplasty for Developmental Dysplasia of the Hip with the Assistance of Three Dimensional Printing Technology: A Pilot Study. <i>Orthopaedic Surgery</i> , 2022, 14, 119-128.	1.7	15
51	Visualization methods for differential expression analysis. <i>BMC Bioinformatics</i> , 2019, 20, 458.	2.6	14
52	Orca: A Visualization Toolkit for High-Dimensional Data. <i>Journal of Computational and Graphical Statistics</i> , 2000, 9, 509.	1.8	13
53	Gradient-based habitat affinities predict species vulnerability to drought. <i>Ecology</i> , 2013, 94, 1036-1045.	3.4	13
54	Exploring Environmental Data in a Highly Immersive Virtual Reality Environment. <i>Environmental Monitoring and Assessment</i> , 1998, 51, 441-450.	2.7	12

#	ARTICLE	IF	CITATIONS
55	Testing Statistical Charts: What Makes a Good Graph?. Annual Review of Statistics and Its Application, 2020, 7, 61-88.	7.5	12
56	NanoMethViz: An R/Bioconductor package for visualizing long-read methylation data. PLoS Computational Biology, 2021, 17, e1009524.	3.0	12
57	Visual Methods for Examining SVM Classifiers. Lecture Notes in Computer Science, 2008, , 136-153.	2.0	11
58	The 2011 data Expo of the American Statistical Association. Computational Statistics, 2014, 29, 117-119.	1.5	10
59	The 2013 Data Expo of the American Statistical Association. Computational Statistics, 2019, 34, 1443-1447.	1.5	10
60	ASAS-NANP SYMPOSIUM: prospects for interactive and dynamic graphics in the era of data-rich animal science1. Journal of Animal Science, 2021, 99, .	0.5	10
61	A Projection Pursuit Method on the multidimensional squared Contingency Table. Computational Statistics, 2003, 18, 605-626.	1.5	9
62	Examining Short-Term Responses to a Long-Term Problem: RNA-Seq Analyses of Iron Deficiency Chlorosis Tolerant Soybean. International Journal of Molecular Sciences, 2020, 21, 3591.	4.2	9
63	Extending the GGobi pipeline from R. Computational Statistics, 2009, 24, 195-205.	1.5	8
64	A Slice Tour for Finding Hollowness in High-Dimensional Data. Journal of Computational and Graphical Statistics, 2020, 29, 681-687.	1.8	8
65	PKgraph: An R package for graphically diagnosing population pharmacokinetic models. Computer Methods and Programs in Biomedicine, 2011, 104, 461-471.	4.8	7
66	Dynamical projections for the visualization of PDFSense data. European Physical Journal C, 2018, 78, 1.	4.0	7
67	A Study on Student Performance, Engagement, and Experience With Kaggle InClass data Challenges. Journal of Statistics and Data Science Education, 2021, 29, 63-70.	1.7	7
68	A Projection Pursuit Forest Algorithm for Supervised Classification. Journal of Computational and Graphical Statistics, 2021, 30, 1168-1180.	1.8	7
69	Cluster Optimized Proximity Scaling. Journal of Computational and Graphical Statistics, 2021, 30, 1156-1167.	1.8	7
70	Linking ArcView, and XGobi: Insight behind the Front End. Journal of Computational and Graphical Statistics, 2000, 9, 470.	1.8	6
71	spinifex: An R Package for Creating a Manual Tour of Low-dimensional Projections of Multivariate Data. R Journal, 2020, 12, 243.	3.0	6
72	Material Culture, Museums, and Memory: Experiments in Visitor Recall and Memory. Visitor Studies, 2020, 23, 18-45.	0.9	5

#	ARTICLE	IF	CITATIONS
73	Using tours to visually investigate properties of new projection pursuit indexes with application to problems in physics. <i>Computational Statistics</i> , 2020, 35, 1171-1205.	1.5	5
74	Some Dynamic Graphics for Spatial Data (with Multiple Attributes) in a GIS. , 1994, , 105-119.		5
75	tourrGui: AgWidgetsGUI for the Tour to Explore High-Dimensional Data Using Low-Dimensional Projections. <i>Journal of Statistical Software</i> , 2012, 49, .	3.8	5
76	Incorporating Exploratory Methods using Dynamic Graphics into Multivariate Statistics Classes: Curriculum Development. , 2009, , 337-355.		4
77	Enabling Interactivity on Displays of Multivariate Time Series and Longitudinal Data. <i>Journal of Computational and Graphical Statistics</i> , 2016, 25, 1057-1076.	1.8	4
78	Calendar-Based Graphics for Visualizing People's Daily Schedules. <i>Journal of Computational and Graphical Statistics</i> , 2020, 29, 490-502.	1.8	4
79	Statistical significance calculations for scenarios in visual inference. <i>Stat</i> , 2021, 10, e337.	0.4	4
80	Escape from Boxland. <i>R Journal</i> , 2016, 8, 243.	3.0	4
81	The characterization of regular but unevenly spaced TWSTFT data using second-difference statistics. <i>Metrologia</i> , 2003, 40, S312-S318.	1.2	3
82	Editorial: Publishing Animations, 3D Visualizations, and Movies in <i>JCGS</i> . <i>Journal of Computational and Graphical Statistics</i> , 2010, 19, 1-2.	1.8	3
83	Spatial modelling of the two-party preferred vote in Australian federal elections: 2001-2016. <i>Australian and New Zealand Journal of Statistics</i> , 2020, 62, 168-185.	0.8	3
84	Burning Sage: Reversing the Curse of Dimensionality in the Visualization of High-Dimensional Data. <i>Journal of Computational and Graphical Statistics</i> , 2022, 31, 40-49.	1.8	3
85	The linked ArcView 2.1 and XGobi environment--GIS, dynamic statistical graphics, and spatial data. , 1996, , .		2
86	Delayed, Canceled, on Time, Boarding Flying in the USA. <i>Journal of Computational and Graphical Statistics</i> , 2011, 20, 287-290.	1.8	2
87	Hole or Grain? A Section Pursuit Index for Finding Hidden Structure in Multiple Dimensions. <i>Journal of Computational and Graphical Statistics</i> , 2022, 31, 739-752.	1.8	2
88	Visual Diagnostics for Constrained Optimisation with Application to Guided Tours. <i>R Journal</i> , 2021, 13, 542.	3.0	2
89	The state of the art on tours for dynamic visualization of high-dimensional data. <i>Wiley Interdisciplinary Reviews: Computational Statistics</i> , 2022, 14, .	3.7	2
90	Authors' response to discussants. <i>Statistical Analysis and Data Mining</i> , 2015, 8, 242-244.	2.7	1

#	ARTICLE	IF	CITATIONS
91	Measuring Lineup Difficulty By Matching Distance Metrics With Subject Choices in Crowd-Sourced Data. Journal of Computational and Graphical Statistics, 2018, 27, 132-145.	1.8	1
92	Cyclic codes over $\mathbb{F}_2 + u\mathbb{F}_2 + v\mathbb{F}_2 + v^2\mathbb{F}_2$ with respect to the homogeneous weight and their applications to DNA codes. Applicable Algebra in Engineering, Communications and Computing, 2021, 32, 621-636.	0.7	1
93	Visualizing Probability Distributions Across Bivariate Cyclic Temporal Granularities. Journal of Computational and Graphical Statistics, 0, , 1-12.	1.8	1
94	Commentary on "Visualization in Operations Management Research": Incorporating Statistical Thinking into Visualization Practices for Decision Making in Operational Management. INFORMS Journal on Data Science, 0, , .	1.8	1
95	A Journey from Wild to Textbook Data to Reproducibly Refresh the Wages Data from the National Longitudinal Survey of Youth Database. Journal of Statistics and Data Science Education, 2022, 30, 289-303.	1.7	1
96	New and Simplified Manual Controls for Projection and Slice Tours, With Application to Exploring Classification Boundaries in High Dimensions. Journal of Computational and Graphical Statistics, 2023, 32, 1229-1236.	1.8	1
97	A Plot is Worth a Thousand Tests: Assessing Residual Diagnostics with the Lineup Protocol. Journal of Computational and Graphical Statistics, 0, , 1-19.	1.8	1
98	Interactive and Dynamic Graphics for Data Analysis: A Case Study On Quasar Data. , 2003, , 255-264.		0
99	Discriminating proteins using a novel ensemble algorithm. , 2012, , .		0
100	An efficient process model for distributed software application developments. , 2013, , .		0
101	Four Papers on Contemporary Software Design Strategies for Statistical Methodologists. Statistical Science, 2014, 29, .	2.9	0
102	Discussion of "visualizing statistical models: Removing the blindfold". Statistical Analysis and Data Mining, 2015, 8, 229-231.	2.7	0
103	On the move at DinoFun world. , 2015, , .		0
104	Visualizing communication patterns at DinoFun World. , 2015, , .		0
105	Visual Data Mining in Atmospheric Science Data. , 2000, , 69-80.		0
106	Finding Interesting Genes Using Reliability in Various Gene Expression Models. Genomics and Informatics, 2011, 9, 28-36.	0.7	0
107	Rise of the Smart Phone Thumb. Indian Journal of Physical Medicine and Rehabilitation, 2016, 27, 95-95.	0.1	0
108	Casting multiple shadows: interactive data visualisation with tours and embeddings. Journal of Data Science, Statistics, and Visualisation, 2022, 2, .	0.4	0

#	ARTICLE	IF	CITATIONS
109	Interactive graphics for visually diagnosing forest classifiers in R. Computational Statistics, 0, , .	1.5	0
110	Performance Is Not Enough: The Story Told by a Rashomon Quartet. Journal of Computational and Graphical Statistics, 0, , 1-4.	1.8	0
111	A Tidy Framework and Infrastructure to Systematically Assemble Spatio-temporal Indexes from Multivariate Data. Journal of Computational and Graphical Statistics, 0, , 1-19.	1.8	0
112	Designing the Australian Cancer Atlas: visualizing geostatistical model uncertainty for multiple audiences. Journal of the American Medical Informatics Association: JAMIA, 0, , .	4.6	0