

# Dianne Cook

## List of Publications by Year in descending order

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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	New and Simplified Manual Controls for Projection and Slice Tours, With Application to Exploring Classification Boundaries in High Dimensions. <i>Journal of Computational and Graphical Statistics</i> , 2023, 32, 1229-1236.	1.8	1
2	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
3	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
4	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
5	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
6	Casting multiple shadows: interactive data visualisation with tours and embeddings. <i>Journal of Data Science, Statistics, and Visualisation</i> , 2022, 2, .	0.4	0
7	A Journey from Wild to Textbook Data to Reproducibly Refresh the Wages Data from the National Longitudinal Survey of Youth Database. <i>Journal of Statistics and Data Science Education</i> , 2022, 30, 289-303.	1.7	1
8	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. <i>Applicable Algebra in Engineering, Communications and Computing</i> , 2021, 32, 621-636.	0.7	1
9	Statistical significance calculations for scenarios in visual inference. <i>Stat</i> , 2021, 10, e337.	0.4	4
10	A Study on Student Performance, Engagement, and Experience With Kaggle InClass data Challenges. <i>Journal of Statistics and Data Science Education</i> , 2021, 29, 63-70.	1.7	7
11	ASAS-NANP SYMPOSIUM: prospects for interactive and dynamic graphics in the era of data-rich animal science1. <i>Journal of Animal Science</i> , 2021, 99, .	0.5	10
12	A Projection Pursuit Forest Algorithm for Supervised Classification. <i>Journal of Computational and Graphical Statistics</i> , 2021, 30, 1168-1180.	1.8	7
13	Cluster Optimized Proximity Scaling. <i>Journal of Computational and Graphical Statistics</i> , 2021, 30, 1156-1167.	1.8	7
14	NanoMethViz: An R/Bioconductor package for visualizing long-read methylation data. <i>PLoS Computational Biology</i> , 2021, 17, e1009524.	3.0	12
15	Visual Diagnostics for Constrained Optimisation with Application to Guided Tours. <i>R Journal</i> , 2021, 13, 542.	3.0	2
16	Testing Statistical Charts: What Makes a Good Graph?. <i>Annual Review of Statistics and Its Application</i> , 2020, 7, 61-88.	7.5	12
17	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
18	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

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19	A Slice Tour for Finding Hollowness in High-Dimensional Data. <i>Journal of Computational and Graphical Statistics</i> , 2020, 29, 681-687.	1.8	8
20	Material Culture, Museums, and Memory: Experiments in Visitor Recall and Memory. <i>Visitor Studies</i> , 2020, 23, 18-45.	0.9	5
21	Calendar-Based Graphics for Visualizing People's Daily Schedules. <i>Journal of Computational and Graphical Statistics</i> , 2020, 29, 490-502.	1.8	4
22	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
23	Examining Short-Term Responses to a Long-Term Problem: RNA-Seq Analyses of Iron Deficiency Chlorosis Tolerant Soybean. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3591.	4.2	9
24	spinifex: An R Package for Creating a Manual Tour of Low-dimensional Projections of Multivariate Data. <i>R Journal</i> , 2020, 12, 243.	3.0	6
25	The 2013 Data Expo of the American Statistical Association. <i>Computational Statistics</i> , 2019, 34, 1443-1447.	1.5	10
26	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
27	Visualization methods for differential expression analysis. <i>BMC Bioinformatics</i> , 2019, 20, 458.	2.6	14
28	plyranges: a grammar of genomic data transformation. <i>Genome Biology</i> , 2019, 20, 4.	9.1	86
29	Transcriptomic responses to diet quality and viral infection in <i>Apis mellifera</i> . <i>BMC Genomics</i> , 2019, 20, 412.	2.9	29
30	Measuring Lineup Difficulty By Matching Distance Metrics With Subject Choices in Crowd-Sourced Data. <i>Journal of Computational and Graphical Statistics</i> , 2018, 27, 132-145.	1.8	1
31	Dynamical projections for the visualization of PDFSense data. <i>European Physical Journal C</i> , 2018, 78, 1.	4.0	7
32	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
33	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
34	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
35	Escape from Boxland. <i>R Journal</i> , 2016, 8, 243.	3.0	4
36	Rise of the Smart Phone Thumb. <i>Indian Journal of Physical Medicine and Rehabilitation</i> , 2016, 27, 95-95.	0.1	0

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37	Authors' response to discussants. <i>Statistical Analysis and Data Mining</i> , 2015, 8, 242-244.	2.7	1
38	Visualizing statistical models: Removing the blindfold. <i>Statistical Analysis and Data Mining</i> , 2015, 8, 203-225.	2.7	36
39	Discussion of "visualizing statistical models: Removing the blindfold". <i>Statistical Analysis and Data Mining</i> , 2015, 8, 229-231.	2.7	0
40	On the move at DinoFun world. , 2015, , .		0
41	Visualizing communication patterns at DinoFun World. , 2015, , .		0
42	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
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	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
45	The 2011 data Expo of the American Statistical Association. <i>Computational Statistics</i> , 2014, 29, 117-119.	1.5	10
46	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
47	Four Papers on Contemporary Software Design Strategies for Statistical Methodologists. <i>Statistical Science</i> , 2014, 29, .	2.9	0
48	The Generalized Pairs Plot. <i>Journal of Computational and Graphical Statistics</i> , 2013, 22, 79-91.	1.8	88
49	Gradient-based habitat affinities predict species vulnerability to drought. <i>Ecology</i> , 2013, 94, 1036-1045.	3.4	13
50	Validation of Visual Statistical Inference, Applied to Linear Models. <i>Journal of the American Statistical Association</i> , 2013, 108, 942-956.	3.4	44
51	An efficient process model for distributed software application developments. , 2013, , .		0
52	PPtree: Projection pursuit classification tree. <i>Electronic Journal of Statistics</i> , 2013, 7, .	0.7	16
53	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
54	Graphical Tests for Power Comparison of Competing Designs. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2012, 18, 2441-2448.	4.5	34

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55	Discriminating proteins using a novel ensemble algorithm. , 2012, , .		0
56	ggbio: an R package for extending the grammar of graphics for genomic data. <i>Genome Biology</i> , 2012, 13, R77.	9.1	303
57	Glyphmaps for visually exploring temporal patterns in climate data and models. <i>Environmetrics</i> , 2012, 23, 382-393.	1.4	31
58	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
59	PKgraph: An R package for graphically diagnosing population pharmacokinetic models. <i>Computer Methods and Programs in Biomedicine</i> , 2011, 104, 461-471.	4.8	7
60	Delayed, Canceled, on Time, Boardingâ€¦   Flying in the USA. <i>Journal of Computational and Graphical Statistics</i> , 2011, 20, 287-290.	1.8	2
61	<b>tourr</b>: An <i>R</i> Package for Exploring Multivariate Data with Projections. <i>Journal of Statistical Software</i> , 2011, 40, .	3.8	65
62	Finding Interesting Genes Using Reliability in Various Gene Expression Models. <i>Genomics and Informatics</i> , 2011, 9, 28-36.	0.7	0
63	A projection pursuit index for large p small n data. <i>Statistics and Computing</i> , 2010, 20, 381-392.	1.5	28
64	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
65	Graphical inference for infovis. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2010, 16, 973-979.	4.5	93
66	Incorporating Exploratory Methods using Dynamic Graphics into Multivariate Statistics Classes: Curriculum Development. , 2009, , 337-355.		4
67	Extending the GGobi pipeline from R. <i>Computational Statistics</i> , 2009, 24, 195-205.	1.5	8
68	The plumbing of interactive graphics. <i>Computational Statistics</i> , 2009, 24, 207-215.	1.5	17
69	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
70	Grand Tours, Projection Pursuit Guided Tours, and Manual Controls. , 2008, , 295-314.		19
71	Visual Methods for Examining SVM Classifiers. <i>Lecture Notes in Computer Science</i> , 2008, , 136-153.	2.0	11
72	Exploring Gene Expression Data, Using Plots. <i>Journal of Data Science</i> , 2007, 5, 151-182.	0.9	15

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73	MetNet: Systems Biology Tools for Arabidopsis. , 2007, , 145-157.		24
74	Computational Methods for High-Dimensional Rotations in Data Visualization. Handbook of Statistics, 2005, 24, 391-413.	0.3	32
75	Projection Pursuit for Exploratory Supervised Classification. Journal of Computational and Graphical Statistics, 2005, 14, 831-846.	1.8	64
76	BarleyBase—an expression profiling database for plant genomics. Nucleic Acids Research, 2004, 33, D614-D618.	13.9	88
77	MetNet: Software to Build and Model the Biogenetic Lattice of Arabidopsis. International Journal of Genomics, 2003, 4, 239-245.	1.6	57
78	GGobi: evolving from XGobi into an extensible framework for interactive data visualization. Computational Statistics and Data Analysis, 2003, 43, 423-444.	1.3	164
79	A Projection Pursuit Method on the multidimensional squared Contingency Table. Computational Statistics, 2003, 18, 605-626.	1.5	9
80	The characterization of regular but unevenly spaced TWSTFT data using second-difference statistics. Metrologia, 2003, 40, S312-S318.	1.2	3
81	Interactive and Dynamic Graphics for Data Analysis: A Case Study On Quasar Data. , 2003, , 255-264.		0
82	Gaining insights into support vector machine pattern classifiers using projection-based tour methods. , 2001, , .		36
83	Linking ArcView®, and XGobi: Insight behind the Front End. Journal of Computational and Graphical Statistics, 2000, 9, 470.	1.8	6
84	Visualization of data. Current Opinion in Biotechnology, 2000, 11, 89-96.	6.8	40
85	Visual Data Mining In Atmospheric Science Data. Data Mining and Knowledge Discovery, 2000, 4, 69-80.	3.8	17
86	Interactive visualization of hierarchical clusters using MDS and MST. Metrika, 2000, 51, 39-51.	0.9	28
87	Linking ArcView®, and XGobi: Insight behind the Front End. Journal of Computational and Graphical Statistics, 2000, 9, 470-490.	1.8	19
88	Orca: A Visualization Toolkit for High-Dimensional Data. Journal of Computational and Graphical Statistics, 2000, 9, 509-529.	1.8	21
89	Orca: A Visualization Toolkit for High-Dimensional Data. Journal of Computational and Graphical Statistics, 2000, 9, 509.	1.8	13
90	Visual Data Mining in Atmospheric Science Data. , 2000, , 69-80.		0

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91	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
92	Exploring Environmental Data in a Highly Immersive Virtual Reality Environment. <i>Environmental Monitoring and Assessment</i> , 1998, 51, 441-450.	2.7	12
93	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
94	XGobi: Interactive Dynamic Data Visualization in the X Window System. <i>Journal of Computational and Graphical Statistics</i> , 1998, 7, 113.	1.8	111
95	Manual Controls for High-Dimensional Data Projections. <i>Journal of Computational and Graphical Statistics</i> , 1997, 6, 464-480.	1.8	33
96	Manual Controls for High-Dimensional Data Projections. <i>Journal of Computational and Graphical Statistics</i> , 1997, 6, 464.	1.8	24
97	Dynamic graphics in a GIS: More examples using linked software. <i>Computers and Geosciences</i> , 1997, 23, 371-385.	4.3	54
98	Interactive High-Dimensional Data Visualization. <i>Journal of Computational and Graphical Statistics</i> , 1996, 5, 78-99.	1.8	213
99	Interactive High-Dimensional Data Visualization. <i>Journal of Computational and Graphical Statistics</i> , 1996, 5, 78.	1.8	176
100	Using Graphics and Simulation to Teach Statistical Concepts. <i>American Statistician</i> , 1996, 50, 342-351.	1.6	25
101	The linked ArcView 2.1 and XGobi environment--GIS, dynamic statistical graphics, and spatial data. , 1996, , .		2
102	Grand Tour and Projection Pursuit. <i>Journal of Computational and Graphical Statistics</i> , 1995, 4, 155.	1.8	69
103	Grand Tour and Projection Pursuit. <i>Journal of Computational and Graphical Statistics</i> , 1995, 4, 155-172.	1.8	150
104	Some Dynamic Graphics for Spatial Data (with Multiple Attributes) in a GIS. , 1994, , 105-119.		5
105	Projection Pursuit Indexes Based on Orthonormal Function Expansions. <i>Journal of Computational and Graphical Statistics</i> , 1993, 2, 225.	1.8	105
106	Visualizing Probability Distributions Across Bivariate Cyclic Temporal Granularities. <i>Journal of Computational and Graphical Statistics</i> , 0, , 1-12.	1.8	1
107	Commentary on "Visualization in Operations Management Research": Incorporating Statistical Thinking into Visualization Practices for Decision Making in Operational Management. <i>INFORMS Journal on Data Science</i> , 0, , .	1.8	1
108	Interactive graphics for visually diagnosing forest classifiers in R. <i>Computational Statistics</i> , 0, , .	1.5	0

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109	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
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