

# Eric Gilleland

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6251856/publications.pdf>

Version: 2024-02-01

58  
papers

2,519  
citations

331670

21  
h-index

197818

49  
g-index

64  
all docs

64  
docs citations

64  
times ranked

2706  
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-stationary extreme value analysis in a changing climate. <i>Climatic Change</i> , 2014, 127, 353-369.	3.6	390
2	<b>extRemes</b>2.0: An Extreme Value Analysis Package in<i>R</i>. <i>Journal of Statistical Software</i> , 2016, 72, .	3.7	366
3	Intercomparison of Spatial Forecast Verification Methods. <i>Weather and Forecasting</i> , 2009, 24, 1416-1430.	1.4	315
4	New Software to Analyze How Extremes Change Over Time. <i>Eos</i> , 2011, 92, 13-14.	0.1	179
5	Verifying Forecasts Spatially. <i>Bulletin of the American Meteorological Society</i> , 2010, 91, 1365-1376.	3.3	137
6	Modeling hydrologic and water quality extremes in a changing climate: A statistical approach based on extreme value theory. <i>Water Resources Research</i> , 2010, 46, .	4.2	105
7	Application of Spatial Verification Methods to Idealized and NWP-Gridded Precipitation Forecasts. <i>Weather and Forecasting</i> , 2009, 24, 1485-1497.	1.4	87
8	Impact of increasing heat waves on U.S. ozone episodes in the 2050s: Results from a multimodel analysis using extreme value theory. <i>Geophysical Research Letters</i> , 2016, 43, 4017-4025.	4.0	85
9	An extremeness threshold determines the regional response of floods to changes in rainfall extremes. <i>Communications Earth &amp; Environment</i> , 2021, 2, .	6.8	67
10	A software review for extreme value analysis. <i>Extremes</i> , 2013, 16, 103-119.	1.0	55
11	Software for the analysis of extreme events: The current state and future directions. <i>Extremes</i> , 2005, 8, 87-109.	1.0	41
12	Spatial Dependence of Floods Shaped by Spatiotemporal Variations in Meteorological and Landâ€”Surface Processes. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088000.	4.0	40
13	Analyzing the Image Warp Forecast Verification Method on Precipitation Fields from the ICP. <i>Weather and Forecasting</i> , 2010, 25, 1249-1262.	1.4	39
14	Testing Competing Precipitation Forecasts Accurately and Efficiently: The Spatial Prediction Comparison Test. <i>Monthly Weather Review</i> , 2013, 141, 340-355.	1.4	31
15	The Setup of the MesoVICT Project. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 1887-1906.	3.3	31
16	Spatial clustering of summer temperature maxima from the CNRM-CM5 climate model ensembles & E-OBS over Europe. <i>Weather and Climate Extremes</i> , 2015, 9, 17-24.	4.1	30
17	Increasing importance of temperature as a contributor to the spatial extent of streamflow drought. <i>Environmental Research Letters</i> , 2021, 16, 024038.	5.2	30
18	Generalized extreme wind speed distributions in South America over the Atlantic Ocean region. <i>Theoretical and Applied Climatology</i> , 2011, 104, 377-385.	2.8	28

#	ARTICLE	IF	CITATIONS
19	Statistical models for monitoring and regulating ground-level ozone. <i>Environmetrics</i> , 2005, 16, 535-546.	1.4	27
20	Spatio-temporal models for large-scale indicators of extreme weather. <i>Environmetrics</i> , 2011, 22, 294-303.	1.4	22
21	Extreme wind regime responses to climate variability and change in the inner south coast of British Columbia, Canada. <i>Atmosphere - Ocean</i> , 2009, 47, 41-62.	1.6	21
22	An approach for probabilistic forecasting of seasonal turbidity threshold exceedance. <i>Water Resources Research</i> , 2010, 46, .	4.2	21
23	Use of Daily Station Observations to Produce High-Resolution Gridded Probabilistic Precipitation and Temperature Time Series for the Hawaiian Islands. <i>Journal of Hydrometeorology</i> , 2019, 20, 509-529.	1.9	21
24	The Model Evaluation Tools (MET): More than a Decade of Community-Supported Forecast Verification. <i>Bulletin of the American Meteorological Society</i> , 2021, 102, E782-E807.	3.3	21
25	Computationally Efficient Spatial Forecast Verification Using Baddeley's Delta Image Metric. <i>Monthly Weather Review</i> , 2008, 136, 1747-1757.	1.4	20
26	Spatial Forecast Verification: Baddeley's Delta Metric Applied to the ICP Test Cases. <i>Weather and Forecasting</i> , 2011, 26, 409-415.	1.4	20
27	How Probable Is Widespread Flooding in the United States?. <i>Water Resources Research</i> , 2020, 56, e2020WR028096.	4.2	19
28	Stochastic simulation of streamflow and spatial extremes: a continuous, wavelet-based approach. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 3967-3982.	4.9	19
29	Spatial extreme value analysis to project extremes of large-scale indicators for severe weather. <i>Environmetrics</i> , 2013, 24, 418-432.	1.4	17
30	A new approach to testing forecast predictive accuracy. <i>Meteorological Applications</i> , 2015, 22, 534-543.	2.1	17
31	A New Characterization within the Spatial Verification Framework for False Alarms, Misses, and Overall Patterns. <i>Weather and Forecasting</i> , 2017, 32, 187-198.	1.4	16
32	Bootstrap Methods for Statistical Inference. Part II: Extreme-Value Analysis. <i>Journal of Atmospheric and Oceanic Technology</i> , 2020, 37, 2135-2144.	1.3	15
33	Testing the Tests: What Are the Impacts of Incorrect Assumptions When Applying Confidence Intervals or Hypothesis Tests to Compare Competing Forecasts?. <i>Monthly Weather Review</i> , 2018, 146, 1685-1703.	1.4	14
34	Extreme-value analysis for the characterization of extremes in water resources: A generalized workflow and case study on New Mexico monsoon precipitation. <i>Weather and Climate Extremes</i> , 2020, 29, 100260.	4.1	14
35	Observed and predicted sensitivities of extreme surface ozone to meteorological drivers in three US cities. <i>Atmospheric Environment</i> , 2018, 176, 292-300.	4.1	13
36	Space-time dependence of compound hot-dry events in the United States: assessment using a multi-site multi-variable weather generator. <i>Earth System Dynamics</i> , 2021, 12, 621-634.	7.1	13

#	ARTICLE	IF	CITATIONS
37	Empirical Bayes estimation for the conditional extreme value model. <i>Stat</i> , 2014, 3, 391-406.	0.4	11
38	Multiyear Droughts and Pluvials over the Upper Colorado River Basin and Associated Circulations. <i>Journal of Hydrometeorology</i> , 2017, 18, 799-818.	1.9	11
39	Bootstrap Methods for Statistical Inference. Part I: Comparative Forecast Verification for Continuous Variables. <i>Journal of Atmospheric and Oceanic Technology</i> , 2020, 37, 2117-2134.	1.3	10
40	A Novel Set of Geometric Verification Test Fields with Application to Distance Measures. <i>Monthly Weather Review</i> , 2020, 148, 1653-1673.	1.4	9
41	Review article: Observations for high-impact weather and their use in verification. <i>Natural Hazards and Earth System Sciences</i> , 2021, 21, 1297-1312.	3.6	9
42	Quantifying the Risk of Extreme Events under Climate Change. <i>Chance</i> , 2017, 30, 30-36.	0.2	8
43	Statistics of multi-year droughts from the method for object-based diagnostic evaluation. <i>International Journal of Climatology</i> , 2018, 38, 3405-3420.	3.5	8
44	Evaluating the Impact of Planetary Boundary Layer, Land Surface Model, and Microphysics Parameterization Schemes on Cold Cloud Objects in Simulated GOES-16 Brightness Temperatures. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD034709.	3.3	8
45	Assessing convection permitting resolutions of WRF for the purpose of water resource impact assessment and vulnerability work: A southeast Australian case study. <i>Water Resources Research</i> , 2017, 53, 726-743.	4.2	6
46	Complex High- and Low-Flow Networks Differ in Their Spatial Correlation Characteristics, Drivers, and Changes. <i>Water Resources Research</i> , 2021, 57, e2021WR030049.	4.2	6
47	Evaluating NARCCAP model performance for frequencies of severe-storm environments. <i>Advances in Statistical Climatology, Meteorology and Oceanography</i> , 2016, 2, 137-153.	0.9	6
48	Novel measures for summarizing high-resolution forecast performance. <i>Advances in Statistical Climatology, Meteorology and Oceanography</i> , 2021, 7, 13-34.	0.9	5
49	Extremes of Severe Storm Environments under a Changing Climate. <i>American Journal of Climate Change</i> , 2013, 02, 47-61.	0.9	4
50	Assessing Evidence for Weather Regimes Governing Solar Power Generation in Kuwait. <i>Energies</i> , 2019, 12, 4409.	3.1	3
51	Extreme climatic characteristics near the coastline of the southeast region of Brazil in the last 40 years. <i>Theoretical and Applied Climatology</i> , 2021, 146, 657-674.	2.8	3
52	Verification of Meteorological Forecasts for Hydrological Applications. , 2019, , 923-951.		2
53	A statistical approach to fast nowcasting of lightning potential fields. <i>Advances in Statistical Climatology, Meteorology and Oceanography</i> , 2020, 6, 79-90.	0.9	2
54	Network design for verification of ceiling and visibility forecasts. <i>Environmetrics</i> , 2006, 17, 575-589.	1.4	1

#	ARTICLE	IF	CITATIONS
55	A methodological framework for extreme climate risk assessment integrating satellite and location based data sets in intelligent systems. International Journal of Intelligent Systems, 0, , .	5.7	1
56	Verification of Meteorological Forecasts for Hydrological Applications. , 2016, , 1-29.		1
57	Verification of Meteorological Forecasts for Hydrological Applications. , 2016, , 1-30.		0
58	The 2020 International Verification Methods Workshop Online: Major Outcomes and Way Forward. Bulletin of the American Meteorological Society, 2022, 103, E899-E910.	3.3	0