

# Daniel Gianola

## List of Publications by Citations

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100  
papers

6,515  
citations

41  
h-index

80  
g-index

105  
ext. papers

8,223  
ext. citations

3.8  
avg, IF

6.2  
L-index

#	Paper	IF	Citations
100	Prediction of genetic values of quantitative traits in plant breeding using pedigree and molecular markers. <i>Genetics</i> , <b>2010</b> , 186, 713-24	4	508
99	Likelihood, Bayesian, and MCMC Methods in Quantitative Genetics <b>2002</b> ,		422
98	Predicting quantitative traits with regression models for dense molecular markers and pedigree. <i>Genetics</i> , <b>2009</b> , 182, 375-85	4	392
97	Theory and Analysis of Threshold Characters. <i>Journal of Animal Science</i> , <b>1982</b> , 54, 1079-1096	0.7	330
96	Additive genetic variability and the Bayesian alphabet. <i>Genetics</i> , <b>2009</b> , 183, 347-63	4	308
95	Genomic-assisted prediction of genetic value with semiparametric procedures. <i>Genetics</i> , <b>2006</b> , 173, 1761-76	4.76	287
94	Reproducing kernel hilbert spaces regression methods for genomic assisted prediction of quantitative traits. <i>Genetics</i> , <b>2008</b> , 178, 2289-303	4	271
93	Priors in whole-genome regression: the bayesian alphabet returns. <i>Genetics</i> , <b>2013</b> , 194, 573-96	4	248
92	Bayesian Methods in Animal Breeding Theory. <i>Journal of Animal Science</i> , <b>1986</b> , 63, 217-244	0.7	231
91	Semi-parametric genomic-enabled prediction of genetic values using reproducing kernel Hilbert spaces methods. <i>Genetical Research</i> , <b>2010</b> , 92, 295-308	1.1	221
90	Predicting genetic predisposition in humans: the promise of whole-genome markers. <i>Nature Reviews Genetics</i> , <b>2010</b> , 11, 880-6	30.1	205
89	Genomic heritability: what is it?. <i>PLoS Genetics</i> , <b>2015</b> , 11, e1005048	6	183
88	Genomic-Enabled Prediction Based on Molecular Markers and Pedigree Using the Bayesian Linear Regression Package in R. <i>Plant Genome</i> , <b>2010</b> , 3, 106-116	4.4	151
87	Using whole-genome sequence data to predict quantitative trait phenotypes in <i>Drosophila melanogaster</i> . <i>PLoS Genetics</i> , <b>2012</b> , 8, e1002685	6	144
86	Quantitative genetic models for describing simultaneous and recursive relationships between phenotypes. <i>Genetics</i> , <b>2004</b> , 167, 1407-24	4	140
85	Predicting complex quantitative traits with Bayesian neural networks: a case study with Jersey cows and wheat. <i>BMC Genetics</i> , <b>2011</b> , 12, 87	2.6	135
84	Comparison between linear and non-parametric regression models for genome-enabled prediction in wheat. <i>G3: Genes, Genomes, Genetics</i> , <b>2012</b> , 2, 1595-605	3.2	130

83	Application of site and haplotype-frequency based approaches for detecting selection signatures in cattle. <i>BMC Genomics</i> , <b>2011</b> , 12, 318	4.5	110
82	Nonparametric methods for incorporating genomic information into genetic evaluations: an application to mortality in broilers. <i>Genetics</i> , <b>2008</b> , 178, 2305-13	4	89
81	Kernel-based whole-genome prediction of complex traits: a review. <i>Frontiers in Genetics</i> , <b>2014</b> , 5, 363	4.5	88
80	On marker-assisted prediction of genetic value: beyond the ridge. <i>Genetics</i> , <b>2003</b> , 163, 347-65	4	81
79	Inferring causal phenotype networks using structural equation models. <i>Genetics Selection Evolution</i> , <b>2011</b> , 43, 6	4.9	77
78	Machine learning methods and predictive ability metrics for genome-wide prediction of complex traits. <i>Livestock Science</i> , <b>2014</b> , 166, 217-231	1.7	73
77	Applications of Machine Learning Methods to Genomic Selection in Breeding Wheat for Rust Resistance. <i>Plant Genome</i> , <b>2018</b> , 11, 170104	4.4	58
76	Multi-environment Genomic Prediction of Plant Traits Using Deep Learners With Dense Architecture. <i>G3: Genes, Genomes, Genetics</i> , <b>2018</b> , 8, 3813-3828	3.2	58
75	Multi-trait, Multi-environment Deep Learning Modeling for Genomic-Enabled Prediction of Plant Traits. <i>G3: Genes, Genomes, Genetics</i> , <b>2018</b> , 8, 3829-3840	3.2	55
74	Defining window-boundaries for genomic analyses using smoothing spline techniques. <i>Genetics Selection Evolution</i> , <b>2015</b> , 47, 30	4.9	51
73	Prediction of body mass index in mice using dense molecular markers and a regularized neural network. <i>Genetical Research</i> , <b>2011</b> , 93, 189-201	1.1	51
72	A Benchmarking Between Deep Learning, Support Vector Machine and Bayesian Threshold Best Linear Unbiased Prediction for Predicting Ordinal Traits in Plant Breeding. <i>G3: Genes, Genomes, Genetics</i> , <b>2019</b> , 9, 601-618	3.2	51
71	Inferring genetic values for quantitative traits non-parametrically. <i>Genetical Research</i> , <b>2008</b> , 90, 525-40	1.1	48
70	A genome-wide scan for evidence of selection in a maize population under long-term artificial selection for ear number. <i>Genetics</i> , <b>2014</b> , 196, 829-40	4	47
69	Prediction of Plant Height in Arabidopsis thaliana Using DNA Methylation Data. <i>Genetics</i> , <b>2015</b> , 201, 779-83	4.5	45
68	One hundred years of statistical developments in animal breeding. <i>Annual Review of Animal Biosciences</i> , <b>2015</b> , 3, 19-56	13.7	44
67	Deep learning versus parametric and ensemble methods for genomic prediction of complex phenotypes. <i>Genetics Selection Evolution</i> , <b>2020</b> , 52, 12	4.9	44
66	A high resolution genome-wide scan for significant selective sweeps: an application to pooled sequence data in laying chickens. <i>PLoS ONE</i> , <b>2012</b> , 7, e49525	3.7	44

65	Application of support vector regression to genome-assisted prediction of quantitative traits. <i>Theoretical and Applied Genetics</i> , <b>2011</b> , 123, 1065-74	6	44
64	Genome-assisted prediction of a quantitative trait measured in parents and progeny: application to food conversion rate in chickens. <i>Genetics Selection Evolution</i> , <b>2009</b> , 41, 3	4.9	44
63	A comprehensive genetic approach for improving prediction of skin cancer risk in humans. <i>Genetics</i> , <b>2012</b> , 192, 1493-502	4	44
62	Application of neural networks with back-propagation to genome-enabled prediction of complex traits in Holstein-Friesian and German Fleckvieh cattle. <i>Genetics Selection Evolution</i> , <b>2015</b> , 47, 22	4.9	43
61	Do Molecular Markers Inform About Pleiotropy?. <i>Genetics</i> , <b>2015</b> , 201, 23-9	4	42
60	New Deep Learning Genomic-Based Prediction Model for Multiple Traits with Binary, Ordinal, and Continuous Phenotypes. <i>G3: Genes, Genomes, Genetics</i> , <b>2019</b> , 9, 1545-1556	3.2	41
59	Genome-enabled prediction using probabilistic neural network classifiers. <i>BMC Genomics</i> , <b>2016</b> , 17, 208	4.5	35
58	Predicting expected progeny difference for marbling score in Angus cattle using artificial neural networks and Bayesian regression models. <i>Genetics Selection Evolution</i> , <b>2013</b> , 45, 34	4.9	35
57	Radial basis function regression methods for predicting quantitative traits using SNP markers. <i>Genetical Research</i> , <b>2010</b> , 92, 209-25	1.1	35
56	Enhancing genome-enabled prediction by bagging genomic BLUP. <i>PLoS ONE</i> , <b>2014</b> , 9, e91693	3.7	32
55	Genome-enabled prediction of quantitative traits in chickens using genomic annotation. <i>BMC Genomics</i> , <b>2014</b> , 15, 109	4.5	31
54	A two-step method for detecting selection signatures using genetic markers. <i>Genetical Research</i> , <b>2010</b> , 92, 141-55	1.1	30
53	An ensemble-based approach to imputation of moderate-density genotypes for genomic selection with application to Angus cattle. <i>Genetical Research</i> , <b>2012</b> , 94, 133-50	1.1	29
52	Cross-Validation Without Doing Cross-Validation in Genome-Enabled Prediction. <i>G3: Genes, Genomes, Genetics</i> , <b>2016</b> , 6, 3107-3128	3.2	28
51	Predicting complex traits using a diffusion kernel on genetic markers with an application to dairy cattle and wheat data. <i>Genetics Selection Evolution</i> , <b>2013</b> , 45, 17	4.9	28
50	Mixed effects linear models with t-distributions for quantitative genetic analysis: a Bayesian approach. <i>Genetics Selection Evolution</i> , <b>1999</b> , 31, 25	4.9	28
49	A predictive assessment of genetic correlations between traits in chickens using markers. <i>Genetics Selection Evolution</i> , <b>2017</b> , 49, 16	4.9	26
48	Sensitivity to prior specification in Bayesian genome-based prediction models. <i>Statistical Applications in Genetics and Molecular Biology</i> , <b>2013</b> , 12, 375-91	1.2	26

47	Genome-wide association analysis in dogs implicates 99 loci as risk variants for anterior cruciate ligament rupture. <i>PLoS ONE</i> , <b>2017</b> , 12, e0173810	3.7	25
46	Predictive ability of genome-assisted statistical models under various forms of gene action. <i>Scientific Reports</i> , <b>2018</b> , 8, 12309	4.9	25
45	Deep Kernel and Deep Learning for Genome-Based Prediction of Single Traits in Multienvironment Breeding Trials. <i>Frontiers in Genetics</i> , <b>2019</b> , 10, 1168	4.5	25
44	Accuracy of Genome-Enabled Prediction in a Dairy Cattle Population using Different Cross-Validation Layouts. <i>Frontiers in Genetics</i> , <b>2012</b> , 3, 27	4.5	24
43	Kernel-based variance component estimation and whole-genome prediction of pre-corrected phenotypes and progeny tests for dairy cow health traits. <i>Frontiers in Genetics</i> , <b>2014</b> , 5, 56	4.5	21
42	Differential contribution of genomic regions to marked genetic variation and prediction of quantitative traits in broiler chickens. <i>Genetics Selection Evolution</i> , <b>2016</b> , 48, 10	4.9	20
41	Marker-assisted prediction of non-additive genetic values. <i>Genetica</i> , <b>2011</b> , 139, 843-54	1.5	20
40	L2-Boosting algorithm applied to high-dimensional problems in genomic selection. <i>Genetical Research</i> , <b>2010</b> , 92, 227-37	1.1	20
39	The Causal Meaning of Genomic Predictors and How It Affects Construction and Comparison of Genome-Enabled Selection Models. <i>Genetics</i> , <b>2015</b> , 200, 483-94	4	17
38	Genome-Wide Association Studies with a Genomic Relationship Matrix: A Case Study with Wheat and Arabidopsis. <i>G3: Genes, Genomes, Genetics</i> , <b>2016</b> , 6, 3241-3256	3.2	16
37	Contribution of an additive locus to genetic variance when inheritance is multi-factorial with implications on interpretation of GWAS. <i>Theoretical and Applied Genetics</i> , <b>2013</b> , 126, 1457-72	6	16
36	Comparison of classification methods for detecting associations between SNPs and chick mortality. <i>Genetics Selection Evolution</i> , <b>2009</b> , 41, 18	4.9	15
35	Attenuating effects of preferential treatment with Student-t mixed linear models: a simulation study. <i>Genetics Selection Evolution</i> , <b>1998</b> , 30, 565	4.9	15
34	Including Phenotypic Causal Networks in Genome-Wide Association Studies Using Mixed Effects Structural Equation Models. <i>Frontiers in Genetics</i> , <b>2018</b> , 9, 455	4.5	15
33	Assessing genomic prediction accuracy for Holstein sires using bootstrap aggregation sampling and leave-one-out cross validation. <i>Journal of Dairy Science</i> , <b>2017</b> , 100, 453-464	4	14
32	A primer on high-throughput computing for genomic selection. <i>Frontiers in Genetics</i> , <b>2011</b> , 2, 4	4.5	14
31	On the quantitative genetics of mixture characters. <i>Genetics</i> , <b>2006</b> , 173, 2247-55	4	14
30	Long-term impacts of genome-enabled selection. <i>Journal of Applied Genetics</i> , <b>2011</b> , 52, 467-80	2.5	12

29	Prediction of Complex Traits: Robust Alternatives to Best Linear Unbiased Prediction. <i>Frontiers in Genetics</i> , <b>2018</b> , 9, 195	4.5	11
28	A Thurstonian model for quantitative genetic analysis of ranks: a Bayesian approach. <i>Genetics</i> , <b>2006</b> , 174, 1613-24	4	11
27	Whole genome prediction of bladder cancer risk with the Bayesian LASSO. <i>Genetic Epidemiology</i> , <b>2014</b> , 38, 467-76	2.6	10
26	Effect of genotype imputation on genome-enabled prediction of complex traits: an empirical study with mice data. <i>BMC Genetics</i> , <b>2014</b> , 15, 149	2.6	10
25	On measures of association among genetic variables. <i>Animal Genetics</i> , <b>2012</b> , 43 Suppl 1, 19-35	2.5	9
24	Statistics in Animal Breeding. <i>Journal of the American Statistical Association</i> , <b>2000</b> , 95, 296-299	2.8	9
23	A GWAS assessment of the contribution of genomic imprinting to the variation of body mass index in mice. <i>BMC Genomics</i> , <b>2015</b> , 16, 576	4.5	8
22	Integration of single nucleotide variants and whole-genome DNA methylation profiles for classification of rheumatoid arthritis cases from controls. <i>Heredity</i> , <b>2020</b> , 124, 658-674	3.6	8
21	A non-parametric mixture model for genome-enabled prediction of genetic value for a quantitative trait. <i>Genetica</i> , <b>2010</b> , 138, 959-77	1.5	8
20	Incorporating parent-of-origin effects in whole-genome prediction of complex traits. <i>Genetics Selection Evolution</i> , <b>2016</b> , 48, 34	4.9	7
19	Joint Use of Genome, Pedigree, and Their Interaction with Environment for Predicting the Performance of Wheat Lines in New Environments. <i>G3: Genes, Genomes, Genetics</i> , <b>2019</b> , 9, 2925-2934	3.2	7
18	Improving reliability of genomic predictions for Jersey sires using bootstrap aggregation sampling. <i>Journal of Dairy Science</i> , <b>2016</b> , 99, 3632-3645	4	6
17	A Multiple-Trait Bayesian Lasso for Genome-Enabled Analysis and Prediction of Complex Traits. <i>Genetics</i> , <b>2020</b> , 214, 305-331	4	5
16	Bayesian genomic-enabled prediction as an inverse problem. <i>G3: Genes, Genomes, Genetics</i> , <b>2014</b> , 4, 1991-2001	3.2	5
15	Feature Selection Stability and Accuracy of Prediction Models for Genomic Prediction of Residual Feed Intake in Pigs Using Machine Learning. <i>Frontiers in Genetics</i> , <b>2021</b> , 12, 611506	4.5	5
14	Evaluation of linkage disequilibrium in wheat with an L1-regularized sparse Markov network. <i>Theoretical and Applied Genetics</i> , <b>2013</b> , 126, 1991-2002	6	4
13	Inferring trait-specific similarity among individuals from molecular markers and phenotypes with Bayesian regression. <i>Theoretical Population Biology</i> , <b>2020</b> , 132, 47-59	1.2	4
12	Machine Learning Prediction of Crossbred Pig Feed Efficiency and Growth Rate From Single Nucleotide Polymorphisms. <i>Frontiers in Genetics</i> , <b>2020</b> , 11, 567818	4.5	4

11	Genome-wide methylation prediction of biological age using reproducing kernel Hilbert spaces and Bayesian ridge regressions		3
10	It is unlikely that genomic selection will ever be 100% accurate. <i>Journal of Animal Breeding and Genetics</i> , <b>2017</b> , 134, 438-440	2.9	2
9	Bayesian analysis of additive epistasis arising from new mutations in mice. <i>Genetical Research</i> , <b>2014</b> , 96, e008	1.1	2
8	Statistics in Animal Breeding		2
7	A certain invariance property of BLUE in a whole-genome regression context. <i>Journal of Animal Breeding and Genetics</i> , <b>2019</b> , 136, 113-117	2.9	2
6	A robust Bayesian genome-based median regression model. <i>Theoretical and Applied Genetics</i> , <b>2019</b> , 132, 1587-1606	6	1
5	Meta-analysis of candidate gene effects using bayesian parametric and non-parametric approaches. <i>Journal of Genomics</i> , <b>2014</b> , 2, 1-19	0.9	1
4	Including phenotypic causal networks in genome-wide association studies using mixed effects structural equation models		1
3	Prediction of biological age and evaluation of genome-wide dynamic methylomic changes throughout human aging. <i>G3: Genes, Genomes, Genetics</i> , <b>2021</b> ,	3.2	1
2	Genome-Enabled Prediction Methods Based on Machine Learning.. <i>Methods in Molecular Biology</i> , <b>2022</b> , 2467, 189-218	1.4	0
1	Inferring fixed effects in a mixed linear model from an integrated likelihood. <i>Acta Agriculturae Scandinavica - Section A: Animal Science</i> , <b>2007</b> , 57, 183-191	0.6	