JULIEN CHIQUET

CURRICULUM VITÆ

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Curriculum Vitæ

JULIEN CHIQUET

Born July 26, 1980 French citizen Married, father of 3 children

■ julien.chiquet@inrae.fr

the https://jchiquet.github.io

the https://github.com/jchiquet

RESEARCHER in Statistics, Habilitation

UMR MIA Paris-Saclay UPsay, AgroParisTech, INRAE Campus Agro Paris Saclay 22, place de l'agronomie 91120 Palaiseau, France

Brief summary of activities _____

 Research
 STATISTICAL AND LEARNING, LIFE SCIENCE, REPRODUCIBLE RESEARCH

 themes
 Sparse Methods and Regularization · Multivariate Analysis · Latent variable models

 · Optimization and algorithms · Ecology, Environment · Omics data

 production
 43 journal papers, 5 book chapters, ≥ 15 maintained R/C++ packages.

 students
 4 ongoing PhD, 11 alumni

 Teaching
 STATISTICS, MACHINE LEARNING, COMPUTATIONAL SCIENCE

 ≈ 2000 hours for undergraduate and Master students in departments of applied mathematics, statistics, biology and computer science

Responsabilities | Head of UMR MIA Paris-Saclay. Chief editor of Computo

Professional experience _____

since 2020	SENIOR RESEARCHER INRAE UMR MIA Paris-Saclay, AgroParisTech/INRAE Applied Mathematics and Computer Science
2020 – 2024	PART-TIME LECTURER X – École Polytechnique
2016–2019	FIRST CLASS RESEARCHER INRA UMR 518 MIA Paris, AgroParisTech/INRAE
2008 – 2015	Research and Teaching Assistant, then Assistant Professor ($26^{\rm e}$ section) UMR 8071 Statistique & Génome, Université d'Évry
2003 – 2007	PHD STUDENT French Nuclear Agency (CEA) Saclay

EDUCATION _____

$2015 \\ Title \\ Reviewers$	HABILITATION IN MATHEMATICS Contributions to sparse methods for complex data analysis A. d'Aspremont (ENS), A. Dalalyan (ENSAE), JP. Vert (Mines ParisTech)
2003-2007	PhD in Applied Mathematics
Title	Modeling and Estimating degradation processes with application in reliability
	French Nuclear Agency (CEA), Saclay
Supervisor	Nikolaos Limnios (Université de Technologie de Compiègne)
2003	M.S. IN COMPUTATIONAL SCIENCE AND STATISTICAL LEARNING, Université de Technologie de Compiègne
2003	COMPUTER ENGINEERING SCHOOL, Université de Technologie de Compiègne

SCIENTIFIC ACTIVITIES _____

Participation to research grants _____

ON GOING PROJECTS

PAST (SELECTION)

2020–2024 Partners Support Involvement	G2WAS – GRAPE GENES FOR WATER SCARCITY MIA Paris-Saclay, AGAP, LEPSE (INRAE) French National Research Agency (ANR) Team leader, 60,000 € for MIA-Paris
2019–2024 Partners Support Involvement	SINGLESTATOMICS - http://anr-singlestatomics.pages.math.cnrs.fr University of Lyon 1, Mines ParisTech, ENS Lyon, AgroParisTech/INRA French National Research Agency (ANR) 12 month, co-PI, Team leader, 210,000 € for MIA-Paris
2019–2023 Partners Support	ECONET – ADVANCED STATISTICAL MODELLING OF ECOLOGICAL NETWORKS Sorbonne, Lyon 1 and Lille Universities, AgroParisTech/INRAE, ISEM, IEES French National Research Agency (ANR)
2018–2022 Partners Support	NEXT-GEN. BIOMONITORING OF CHANGE IN ECOSYSTEMS STRUCTURE AND FUNCTION AgroParisTech, INRAE (Dijon, Bordeaux, Rennes, Réunion), Imperial College, Cirad French National Research Agency (ANR)
2022–2023 Partners Support	BEHIND THE COUNT'HER – Estimation de paramètres génétiques pour des données de comptage en grande dimension à l'aide du modèle Poisson-lognormal INRAE (GenPhyse, MIA-PS, MaIAGE), Sorobnne U Metaprogramm DIGIT-BIO (Meta-omics and microbial ecosystems, INRAE)
2022–2023 Partners Support	PEERSIM – Caractérisation de stress multiple chez les plantes INRAE (IPS2, MIA-PS, MIAT), IMT Metaprogramm DIGIT-BIO (Meta-omics and microbial ecosystems, INRAE)
2022–2023 Partners Support	GENIALEARN – Intérêts et limites de l'apprentissage statistique et de l'apprentissage profond appliqués à la sélection génomique multi-caractères INRAE (GABI, MIA-PS), UEVE Metaprogramm DIGIT-BIO (Meta-omics and microbial ecosystems, INRAE)
2021–2022 Partners	BOVMOVIE2PRED – Développement précoce bovin et viabilité : Exploration et Prédiction INRAE (MaIAGE, MIA-PS, BREED)
Support	Metaprogramm DIGIT-BIO (Meta-omics and microbial ecosystems, INRAE)
2018–2019	KINETICKS – Network and modelling analyses to describe the dynamics of Ixodes ricinus microbiome and its influence in pathogen evolution
$Partners\\Support$	INRAE (BIPAR, MaIAGE, MIAP) Metaprogramm MEM (Meta-omics and microbial ecosystems, INRA)
2016–2018 Partners Support	LIONS – Large-scale Integrative approach to unravel the complex relationships between differentiatiON and tumorigenesiS IGMM/IBC, MAP5, iSSB Évry, Institut Curie, University of York Plan Cancer 2015 Inserm

2016-2018 LEARNBIOCONTROL: LEARNING ECOLOGICAL NETWORKS FROM METABARCODING DATA: APPLICATION TO BIOLOGICAL CONTROL INRA/UMR BIoGeCo, Imperial College, AgroParisTech/INRA PartnersSupportMP MEM (Inra) 2015-2018 HYDROGEN - Comparative Metagenomic for Measuring Biodiversity PartnersAgroParisTech/INRA, CEA-CNS-LABIS, INRIA Rennes/Genscale French National Research Agency (ANR) Support2012-2016 ABS4NGS - Algorithmic, Bioinformatic and Software solutions for the analysis of Next Generation Sequencing data PartnersInstitut Curie, Mines ParisTech, University of Lyon 1, AgroParisTech/INRA, Investissement d'avenir Support2014-2016 AREA - Analyse de la Réponse Evolutive des Arbres forestiers tropicaux dans l'environnement, approche génomique et métabolomique PartnersAgroParisTech/INRA, UMR EcoFoG, UMR 8638 (CNRS/P5) Défi CNRS « Enviromics » Support

RESEARCH ENHANCEMENT

since 2022 | HEAD OF THE LAB

2020–2021 | Co-Head of the lab; Team leader of team "SOLsTIS" in 2020

UMR MIA Paris-Saclay, Université Paris-Saclay – AgroParisTech – INRAE

Web https://mia-ps.inrae.fr

CURRENT WORKGROUPS

since 2021 DIGIT-BIO IA CELL (FUNDING ≈ 7000€/YEAR) The AI animation cell of DIGIT-BIO proposes a cycle of webinars aiming to i) Set Purposeup a shared vocabulary on AI methods ii) Raise awareness on AI issues specific to life sciences iii) Identify biological questions for which AI developments deserve to be pursued InvolvementCo-leader https://digitbio-ia.github.io/ 2017 - 2022Workgroup State of the R (funding ≈ 5000€/year) PurposeGroup of researchers and engineers meeting to deepen their know-how, improve the dissemination of their methods and exchange around the latest innovations of R An annual bootcamp (1 week) + a half-day monthly meeting with 20/30 people FormatInvolvementCo-founder and Co-leader Webhttps://stateofther.github.io 2009 - 2022INRA METHODOLOGICAL WORKGROUP NETBIO (FUNDING ≈ 5000€/YEAR) This group was originally meant to evaluate the performance of the reconstruction Purposemethods for networks in the framework of molecular biology. It broadened its activities to every network analyses in biology.

Format A daylong annual meeting with 50 people

Involvement | Co-leader since 2012

Web carlit.toulouse.inra.fr/wikiz/index.php/Inférence_de_réseaux_-_réseau_MIA

SCIENTIFIC EVENTS

Conference	Organizing committee – Leader
Rencontres R'21	Provide a national forum for the sharing of ideas within the R community. web page
SMPGD	Steering committee between 2019 and 2022. Annual meeting dedicated to statistical
	methods for post genomic data analysis. web page
SatRDay'19	SatRDays are community-led, regional conferences with international speakers to support collaboration, networking and innovation in the R community. web page
Conference	SCIENTIFIC COMMITTEES, ORGANIZING COMMITTEE JDS 2020, 2021, EcoStat 2021, Rencontres R'18, StatLearn'14, JFRB'14, IWAP 2008, MBN 2007,

Lecturer	Research Schools and Tutorials
StatXP'19-20	Life-course epidemiology and Exposome, Imperial College – web page
Surf64'17-18	Advanced OMIC Profiling and Integration, Anglet, London – web page
SPS'16	From gene expression to genomic network, Paris-Saclay – web page
Angers'16	Bioinformatic Summer School in Angers – web page
BigOptim'15	Large-Scale Convex optimization – web page
'	

STUDENTS _____

from 2024	Blanche Francheterre
PhD	Interpretable Methods in Unsupervised and Supervised Learning for Multisource analysis of Exposome Data and Prediction of cancer outcomes
Supervision	supervision (50%) with M. Chadeau, Senior Researcher, Imperial College
from 2024	François Victor
PhD	Développement de méthodes d'apprentissage statistique et d'apprentissage par trans- fert pour la caractérisation du potentiel agro-écologique et le screening des ressources génétiques
Supervision	supervision (25%) with T. Mary-Huard (DR INRAE), JB. Léger (MCU Compiègne), A. Charcosset DR INRAE)
since 2023	Sihan Xie
PhD	DeepSelectGene : Apprentissage profond à partir de données de génotypes et applica- tion à la sélection génomique
Supervision	supervision (33%) with E. Barrey, DR INRAE and B. Hanczar (PR Évry)
since 2023	JEANNE TOUS
PhD	Detection of changes in group structure within species association networks as a function of changing environmental parameters, and assessment of the causes of these changes
Supervision	supervision (100%)

PHD AND POST-DOC - ALUMNI

$\begin{array}{c} 20212024 \\ PhD \\ Supervision \end{array}$	BASTIEN BATARDIÈRE Statistical Learning for Multivariate Analysis of High Dimensional Count Data supervision (50%) with J. Kwon (50%), CR INRAE
$\begin{array}{c} 20172020 \\ PhD \\ Supervision \end{array}$	MARTINA SUNDQVIST Multi-omic data integration for new classification in triple-negative breast cancer 50% with T. Dubois DR, Institut Curie and G. Rigaill, CR, INRA
$\begin{array}{c} 20172020 \\ PhD \\ Supervision \end{array}$	AUDREY HULOT Analyse de données-omiques : clustering et inférence de réseaux 33% with F. Jaffrezic, DR, Inra (33%); HJ. Garchon, PUPH, Inserm (33%)
$\begin{array}{c} 20162019 \\ PhD \\ Supervision \end{array}$	TIMOTHÉE TABOUY Modeling and inferring sampling design in probabilistic random network models 50% with P. Barbillon, Assoc. Prof., AgroParisTech
$\begin{array}{c} 20162019 \\ PhD \\ Supervision \end{array}$	Marie Perrot-Dockes Regularization tools for multivariate analysis: application to multi-omics 50% with Céline Lévy-Leduc, Prof., AgroParisTech
$\begin{array}{c} 2013\text{-}2016 \\ PhD \\ Supervision \end{array}$	TRUNG HA Statistical learning and multivariate analysis for robust regulatory network inference 25% with ML. Martin, DR INRA/URGV and G. Rigaill, Assoc. Prof., Évry
2015 Post-doc Supervision	DAVID BAKER Regularization methods for genomic selection 50% with Tristan Mary-Huard, CR INRA/Moulon
2011-2014 PhD Supervision	SMAHANE CHALABI Caractérisation de la reprogrammation de l'expression des gènes induite par l'allopo- lyploïdie chez le blé 25% with Boulos Chaloub, DR INRA/URGV, Évry
Supervision	2070 With Double Chesions, Dit Hitti, Otto V, Evry

ÉDITH LE FLOCH 2012-2013 Post-doc Analysis of NGS data to characterize polyploidy 50% with Carène Rizzon, Assoc. Prof., Évry Supervision 2011-2013 JONATHAN PLASSAIS PhDDéveloppement méthodologique pour la méta-analyse appliquée à la caractérisation de signatures chez les patients atteints de maladie auto-immune 50% with Christophe Ambroise, Prof., Évry Supervision CIFRE, société TcLand www.tcland-expression.com Support2009-2012 CAMILLE CHARBONNIER PhDInference of gene regulatory networks from non-iid transcriptomic data Supervision50% with Christophe Ambroise, Prof., Évry

Masters - Alumni

22 MSc. Students (co-)supervized.

Teaching activities _____

Approximately 2000 hours of teachings given various schools and universities: Université d'Évry, Agro-ParisTech, École Nationale Supérieure d'Informatique pour l'Industrie et l'Entreprise (ENSIIE), École Nationale de la Statistique et de l'Analyse de l'Information (ENSAI), Université de Technologie de Compiègne, Université Paris-Sud, Université Paris Dauphine, X – École Polytechnique. In particular, I was a lecturer and teaching supervisor at École Polytechnique (64h/year) from 2020 to 2024, and at ENSAI (around 40h/year) from 2015 to 2018.

I also participate in continuing education courses in data science and machine learning for software engineers and developers in private companies (X-Executive Education, Dauphine Executive Education, HEC Data Science Certificate).

I mention here only a few lessons that I consider noteworthy, as they correspond to the production of support material and responsibility for a course.

$2020-24 \\ Msc \\ web$	STATISTICS IN ACTION WITH R Probabilistic models, data analysis, R programming https://jchiquet.github.io/map566
$2020\text{-}21 \\ Msc \\ web$	Data Analysis and Unsupervised Learning Data and Graph Clustering, Mixture model, Stochastic Block Model https://jchiquet.github.io/map573
$2018-19 \\ Msc \\ web$	AN INTRODUCTION TO GRAPH ANALYSIS AND MODELING (36h course/practicals) Descriptive Analysis of networks, Stochastic Block Model, Graphical Lasso https://github.com/jchiquet/CourseStatNetwork
$2015-18 \\ Msc \\ web$	INTRODUCTION REGULARIZATION FOR REGRESSION (154h course/practicals) Ridge, Lasso, variable selection, model selection https://github.com/jchiquet/CourseRegLinearRegression

SCIENTIFIC PRODUCTIONS

Papers

PREPRINT

- [PP1] J. Tous and J. Chiquet, An integrated method for clustering and association network inference, 2025, doi:10.48550/arXiv.2503.2246.
- [PP2] B. Batardière, J. Chiquet, F. Gindraud, and M. Mariadassou, Zero-inflation in the multivariate poisson lognormal family, 2024, doi:10.48550/arXiv.14711.
- [PP3] B. Batardière, J. Chiquet, and M. Mariadassou, Evaluating parameter uncertainty in the poisson lognormal model with corrected variational estimators, 2024, doi:10.48550/arXiv.2411.08524.
- [PP4] C. Pauvert, T. Fort, A. Calonnec, J. Faivre-d'Arcier, E. Chancerel, M. Massot, J. Chiquet, S. Robin, D. A. Bohan, J. Vallance, and C. Vacher, *Microbial association networks give relevant insights into plant patholiomes*, 2020, doi:10.1101/2020.02.21.958033.

JOURNAL PAPERS

- [JP1] B. Batardière, J. Chiquet, J. Kwon, and J. Stoehr, Importance sampling-based gradient method for dimension reduction in poisson log-normal model, Electronic Journal of Statistics, 19(1), 2025, doi:10.1214/25-EJS2384.
- [JP2] B. Bodinier, S. Rodrigues, M. Karimi, S. Filippi, J. Chiquet, and M. Chadeau-Hyam, Stability selection and consensus clustering in r: The r package sharp, Journal of Statistical Software, 112(5), 2025, doi:10.18637/jss.v112.i05, URL https://www.jstatsoft.org/index.php/jss/article/view/v112i05.
- [JP3] B. Batardiere, J. Kwon, and J. Chiquet, pyplnmodels: A python package to analyze multivariate high-dimensional count data, Journal of Open Source Software, 9(104):p. 6969, 2024, doi:10.21105/joss.06969, URL https://doi.org/10.21105/joss.06969.
- [JP4] R. Wada, F.-J. Peng, C.-A. Lin, R. Vermeulen, A. Iglesias-González, P. Palazzi, B. Bodinier, S. Streel, M. Guillaume, D. Vuckovic et al., Hair-derived exposome exploration of cardiometabolic health: Piloting a bayesian multitrait variable selection approach, Environmental Science & Technology, 2024, doi:https://doi.org/10.1021/acs.est.3c08739.
- [JP5] B. Bodinier, S. Filippi, T. H. Nøst, J. Chiquet, and M. Chadeau-Hyam, Automated calibration for stability selection in penalised regression and graphical models, Journal of the Royal Statistical Society Series C: Applied Statistics, 2023, doi:10.1093/jrsssc/qlad058, URL https://doi.org/ 10.1093/jrsssc/qlad058.
- [JP6] B. Bodinier, S. Rodrigues, M. Karimi, S. Filippi, J. Chiquet, and M. Chadeau-Hyam, *Automated calibration of consensus weighted distance-based clustering approaches using sharp*, Bioinformatics, 2023, doi:https://doi.org/10.1093/bioinformatics/btad635.
- [JP7] E. Delannoy, B. Batardière, S. Pateyron, L. Soubigou-Taconnat, J. Chiquet, J. Colcombet, and J. Lang, *Cell specialization and coordination in arabidopsis leaves upon pathogenic attack revealed by scrna-seq*, Plant Communications, 4(5):p. 100676, 2023, doi:https://doi.org/10.1016/j.xplc.2023.100676, URL https://www.sciencedirect.com/science/article/pii/S2590346223002043, focus Issue on Plant Single-Cell Biology.
- [JP8] H. V. Assel, T. Espinasse, J. Chiquet, and F. Picard, A probabilistic graph coupling view of dimension reduction, in A. H. Oh, A. Agarwal, D. Belgrave, and K. Cho, eds., Advances in Neural Information Processing Systems, 2022, URL https://openreview.net/forum?id=tNXumks8yHv.
- [JP9] P. Barbillon, J. Chiquet, and T. Tabouy, misssbm: An r package for handling missing values in the stochastic block model, Journal of Statistical Software, 101(12):p. 1-32, 2022, doi:10.18637/jss.v101.i12, URL https://www.jstatsoft.org/index.php/jss/article/view/v101i12.
- [JP10] M. Sundqvist, J. Chiquet, and G. Rigaill, Adjusting the adjusted rand index a multinomial story, Computational Statistics, 2022, doi:10.1007/s00180-022-01230-7.
- [JP11] C. Brault, A. Doligez, L. Le Cunff, A. Coupel-Ledru, T. Simonneau, J. Chiquet, P. This, and T. Flutre, Harnessing multivariate, penalized regression methods for genomic prediction and qtl detection to cope with climate change affecting grapevine, G3: Genes|Genomes|Genetics, 2021, doi:10.1093/g3journal/jkab248.
- [JP12] M. Champion, J. Chiquet, P. Neuvial, M. Elati, F. Radvanyi, and E. Birmelé, *Identification of deregulation mechanisms specific to cancer subtypes*, Journal of Bioinformatics and Computational Biology, 19(01): p. 2140003, 2021, doi:10.1142/S0219720021400035.

- [JP13] J. Chiquet, M. Mariadassou, and S. Robin, *The poisson-lognormal model as a versatile framework* for the joint analysis of species abundances, Frontiers in Ecology and Evolution, 9:p. 188, 2021, doi:10.3389/fevo.2021.588292.
- [JP14] M. Dubart, P. Alonso, D. Barroso-Bergada, N. Becker, K. Bethune, D. A. Bohan, C. Boury, M. Cambon, E. Canard, E. Chancerel, J. Chiquet, P. David, N. de Manincor, S. Donnet, A. Duputié, B. Facon, E. Guichoux, T. Le Minh, S. Ortiz-Martínez, L. Piouceau, A. Sacco-Martret de Préville, M. Plantegenest, C. Poux, V. Ravigné, S. Robin, M. Trillat, C. Vacher, C. Vernière, and F. Massol, Chapter nine coupling ecological network analysis with high-throughput sequencing-based surveys: Lessons from the next-generation biomonitoring project, in D. A. Bohan, A. J. Dumbrell, and A. J. Vanbergen, eds., The Future of Agricultural Landscapes, Part III, vol. 65 of Advances in Ecological Research, pp. 367–430, Academic Press, 2021, doi: https://doi.org/10.1016/bs.aecr.2021.10.007, URL https://www.sciencedirect.com/science/article/pii/S0065250421000222.
- [JP15] B. Facon, A. Hafsi, M. C. de la Masselière, S. Robin, F. Massol, M. Dubart, J. Chiquet, E. Frago, F. Chiroleu, P.-F. Duyck, and V. Ravigné, Joint species distributions reveal the combined effects of host plants, abiotic factors and species competition as drivers of species abundances in fruit flies, Ecological Letters, 2021, doi:10.1111/ele.13825.
- [JP16] E. Lejal, J. Chiquet, J. Aubert, S. Robin, A. Estrada-Peña, O. Rue, C. Midoux, M. Mariadassou, X. Bailly, A. Cougoul, P. Gasqui, J. Cosson, K. Chalvet-Monfray, M. Vayssier-Taussat, and T. Pollet, Temporal patterns in ixodes ricinus microbial communities: an insight into tick-borne microbe interactions, Microbiome, 9(153), 2021, doi:10.1186/s40168-021-01051-8.
- [JP17] F. Guinot, M. Szafranski, J. Chiquet, A. Zancarini, C. Le Signor, C. Mougel, and C. Ambroise, Fast computation of genome-metagenome interaction effects, Algorithms for Molecular Biology, 2020, doi:10.1186/s13015-020-00173-2.
- [JP18] A. Hulot, J. Chiquet, F. Jaffrezic, and G. Rigaill, Fast tree aggregation for consensus hierarchical clustering, BMC Bioinformatics, 2020, doi:10.1186/s12859-020-3453-6.
- [JP19] J. Chiquet, S. Robin, and M. Mariadassou, Variational inference for sparse network reconstruction from count data, in K. Chaudhuri and R. Salakhutdinov, eds., Proceedings of the 36th International Conference on Machine Learning, vol. 97 of Proceedings of Machine Learning Research, pp. 1162–1171, PMLR, Long Beach, California, USA, 2019.
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- [JP21] T. Tabouy, P. Barbillon, and J. Chiquet, Variational inference for stochastic block models from sampled data, Journal of the American Statistical Association, 0(ja):pp. 1–20, 2019, doi:10.1080/01621459.2018.1562934.
- [JP22] J. Chiquet, M. Mariadassou, and S. Robin, Variational inference for probabilistic poisson pca, Ann. Appl. Statist., 12(4):pp. 2674–2698, 2018, doi:10.1214/18-AOAS1177.
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- [JP24] M. Perrot, C. Lévy-Leduc, L. Sansonnet, and J. Chiquet, Variable selection in multivariate linear models with high-dimensional covariance matrix estimation, J. Multivar. Anal., 166 :pp. 78–97, 2018, doi:10.1016/j.jmva.2018.02.006.
- [JP25] V. Brault, J. Chiquet, and C. Lévy-Leduc, Efficient block boundaries estimation in block-wise constant matrices: An application to hic data, Elec. J. Statist., 11(1):pp. 1570–1599, 2017, doi: 10.1214/17-EJS1270.
- [JP26] J. Chiquet, P. Gutierrez, and G. Rigaill, Fast tree inference with weighted fusion penalties, Journal of Computational and Graphical Statistics, pp. 205–216, 2017, doi:10.1080/10618600.2015. 1096789.
- [JP27] Y. Grandvalet, J. Chiquet, and C. Ambroise, Sparsity by worst-case penalties, 2017.
- [JP28] J. Chiquet, Y. Grandvalet, and G. Rigaill, On coding effects in regularized categorical regression, Statistical Modelling, (3):pp. 228–237, 2016, doi:10.1177/1471082X16644998.
- [JP29] J. Chiquet, T. Mary-Huard, and S. Robin, Structured regularization for conditional Gaussian graphical models, Statistics and Computing, (3):pp. 789–804, 2016, doi:10.1007/s11222-016-9654-1.
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- [JP32] T. Picchetti, J. Chiquet, M. Elati, P. Neuvial, R. Nicolle, and E. Birmelé, A model for gene deregulation detection using expression data, BMC Systems Biology, 2015, doi:10.1186/1752-0509-9-S6-S6.
- [JP33] B. Chaloub, F. Denoeud, S. Liu, S. Parkin, H. Tang, W. X., J. Chiquet, and 76 more, Early allopolyploid evolution in the post-neolithic Brassica napus oilseed genome, Science, (6199), 2014, doi:10.1126/science.1253435.
- [JP34] H. Chelaifa, V. Chagué, S. Chalabi, I. Mestiri, D. Arnaud, D. Deffains, Y. Lu, H. Belcram, V. Huteau, J. Chiquet, O. Coriton, J. Just, J. Jahier, and B. Chalhoub, *Prevalence of gene expression additivity in genetically stable wheat allohexaploids*, New Phytologist, 197(3):pp. 730–736, 2013, doi:10.1111/nph.12108/full.
- [JP35] J. Chiquet, Y. Grandvalet, and C. Charbonnier, Sparsity in sign-coherent groups of variables via the cooperative-lasso, The Annals of Applied Statistics, 6(2):pp. 795–830, 2012, doi:10.1214/11-AOAS520.
- [JP36] J. Chiquet, Y. Grandvalet, and C. Ambroise, *Inferring multiple graphical models*, Statistics and Computing, 21(4):pp. 537–553, 2011, doi:10.1007/s11222-010-9191-2.
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