UCI Advancement: References

Dustin Pluta

Contents

Abdelnour, Farras, Michael Dayan, Orrin Devinsky, Thomas Thesen, and Ashish Raj. 2018. "Functional Brain Connectivity Is Predictable from Anatomic Network's Laplacian Eigen-Structure." *NeuroImage*. Elsevier.

Ahn, Mihye, Haipeng Shen, Weili Lin, and Hongtu Zhu. 2015. "A Sparse Reduced Rank Framework for Group Analysis of Functional Neuroimaging Data." *Statistica Sinica* 25 (1). NIH Public Access: 295.

Allen, E. A., E. Damaraju, T. Eichele, L. Wu, and V. D. Calhoun. 2018. "EEG Signatures of Dynamic Functional Network Connectivity States." *Brain Topography* 31 (1): 101–16. doi:10.1007/s10548-017-0546-2.

Allen, Elena A, Eswar Damaraju, Sergey M Plis, Erik B Erhardt, Tom Eichele, and Vince D Calhoun. 2014. "Tracking Whole-Brain Connectivity Dynamics in the Resting State." *Cerebral Cortex* 24 (3). Oxford University Press: 663–76.

Basser, Peter J, James Mattiello, and Denis LeBihan. 1994a. "Estimation of the Effective Self-Diffusion Tensor from the Nmr Spin Echo." *Journal of Magnetic Resonance, Series B* 103 (3). Elsevier: 247–54.

———. 1994b. "MR Diffusion Tensor Spectroscopy and Imaging." *Biophysical Journal* 66 (1). Elsevier: 259–67.

Benjamini, Yoav, and Yosef Hochberg. 1995. "Controlling the False Discovery Rate: A Practical and Powerful Approach to Multiple Testing." *Journal of the Royal Statistical Society. Series B (Methodological)*. JSTOR, 289–300.

Bertolino, Alessandro, Giuseppe Blasi, Valeria Latorre, Valeria Rubino, Antonio Rampino, Lorenzo Sinibaldi, Grazia Caforio, et al. 2006. "Additive Effects of Genetic Variation in Dopamine Regulating Genes on Working Memory Cortical Activity in Human Brain." *Journal of Neuroscience* 26 (15). Society for Neuroscience: 3918–22.

Bohlken, Marc M, Rachel M Brouwer, René CW Mandl, Martijn P Van den Heuvel, Anna M Hedman, Marc De Hert, Wiepke Cahn, René S Kahn, and Hilleke E Hulshoff Pol. 2016. "Structural Brain Connectivity as a Genetic Marker for Schizophrenia." *JAMA Psychiatry* 73 (1). American Medical Association: 11–19.

Bowman, F DuBois, Lijun Zhang, Gordana Derado, and Shuo Chen. 2012. "Determining Functional Connectivity Using fMRI Data with Diffusion-Based Anatomical Weighting." *NeuroImage* 62 (3). Elsevier: 1769–79.

Boyle, Evan A, Yang I Li, and Jonathan K Pritchard. 2017. "An Expanded View of Complex Traits: From Polygenic to Omnigenic." *Cell* 169 (7). Elsevier: 1177–86.

Breiman, Leo, and Jerome H Friedman. 1997. "Predicting Multivariate Responses in Multiple Linear Regression." *Journal of the Royal Statistical Society: Series B (Statistical Methodology)* 59 (1). Wiley Online Library: 3–54.

Brown, Philip J, and James V Zidek. 1980. "Adaptive Multivariate Ridge Regression." *The Annals of Statistics*. JSTOR, 64–74.

Browning, Sharon R, and Elizabeth A Thompson. 2012. "Detecting Rare Variant Associations by Identity-by-Descent Mapping in Case-Control Studies." *Genetics* 190 (4). Genetics Soc America: 1521–31.

Calhoun, Vince D, and Tulay Adali. 2016. "Time-Varying Brain Connectivity in fMRI Data: Whole-Brain Data-Driven Approaches for Capturing and Characterizing Dynamic States." *IEEE Signal Processing*

Magazine 33 (3). IEEE: 52–66.

Calhoun, Vince D, Robyn Miller, Godfrey Pearlson, and Tulay Adali. 2014. "The Chronnectome: Time-Varying Connectivity Networks as the Next Frontier in fMRI Data Discovery." *Neuron* 84 (2). Elsevier: 262–74.

Campbell, Trevor, Miao Liu, Brian Kulis, Jonathan P How, and Lawrence Carin. 2013. "Dynamic Clustering via Asymptotics of the Dependent Dirichlet Process Mixture." In *Advances in Neural Information Processing Systems*, 449–57.

Campos, Gustavo de los, Ana I Vazquez, Rohan Fernando, Yann C Klimentidis, and Daniel Sorensen. 2013. "Prediction of Complex Human Traits Using the Genomic Best Linear Unbiased Predictor." *PLoS Genetics* 9 (7). Public Library of Science: e1003608.

Cassidy, Clifford M, Jared X Van Snellenberg, Caridad Benavides, Mark Slifstein, Zhishun Wang, Holly Moore, Anissa Abi-Dargham, and Guillermo Horga. 2016. "Dynamic Connectivity Between Brain Networks Supports Working Memory: Relationships to Dopamine Release and Schizophrenia." *Journal of Neuroscience* 36 (15). Soc Neuroscience: 4377–88.

Chang, Catie, and Gary H Glover. 2010. "Time–frequency Dynamics of Resting-State Brain Connectivity Measured with fMRI." *Neuroimage* 50 (1). Elsevier: 81–98.

Chau, Joris, Hernando Ombao, and Rainer von Sachs. 2017. "Data Depth and Rank-Based Tests for Covariance and Spectral Density Matrices." *arXiv Preprint arXiv:1706.08289*.

Chekouo, Thierry, Francesco C Stingo, Michele Guindani, Kim-Anh Do, and others. 2016. "A Bayesian Predictive Model for Imaging Genetics with Application to Schizophrenia." *The Annals of Applied Statistics* 10 (3). Institute of Mathematical Statistics: 1547–71.

Chiang, S., M. Guindani, H.J. Yeh, Z. Haneef, J.M. Stern, and M. Vannucci. 2017. "A Bayesian Vector Autoregressive Model for Multi-Subject Effective Connectivity Inference Using Multi-Modal Neuroimaging Data." *Human Brain Mapping* 38: 1311–32.

Chiang, Sharon, Michele Guindani, Hsiang J Yeh, Zulfi Haneef, John M Stern, and Marina Vannucci. 2017. "Bayesian Vector Autoregressive Model for Multi-Subject Effective Connectivity Inference Using Multi-Modal Neuroimaging Data." *Human Brain Mapping* 38 (3). Wiley Online Library: 1311–32.

Choe, Ann S, Mary Beth Nebel, Anita D Barber, Jessica R Cohen, Yuting Xu, James J Pekar, Brian Caffo, and Martin A Lindquist. 2017. "Comparing Test-Retest Reliability of Dynamic Functional Connectivity Methods." *Neuroimage* 158. Elsevier: 155–75.

Cohen, Jonathan D, William M Perlstein, Todd S Braver, Leigh E Nystrom, Douglas C Noll, John Jonides, and Edward E Smith. 1997. "Temporal Dynamics of Brain Activation During a Working Memory Task." *Nature* 386 (6625). Nature Publishing Group: 604.

Crobe, Alessandra, Matteo Demuru, Luca Didaci, Gian Luca Marcialis, and Matteo Fraschini. 2016. "Minimum Spanning Tree and K-Core Decomposition as Measure of Subject-Specific Eeg Traits." *Biomedical Physics & Engineering Express* 2 (1). IOP Publishing: 017001.

Cule, Erika, Paolo Vineis, and Maria De Iorio. 2011. "Significance Testing in Ridge Regression for Genetic Data." *BMC Bioinformatics* 12 (1). BioMed Central: 372.

Dahlhaus, Rainer. 2000. "A Likelihood Approximation for Locally Stationary Processes." *The Annals of Statistics* 28 (6). JSTOR: 1762–94.

Dahlhaus, Rainer, and others. 1997. "Fitting Time Series Models to Nonstationary Processes." *The Annals of Statistics* 25 (1). Institute of Mathematical Statistics: 1–37.

Dai, Zhongxiang, Joshua De Souza, Julian Lim, Paul M Ho, Yu Chen, Junhua Li, Nitish Thakor, Anastasios Bezerianos, and Yu Sun. 2017. "EEG Cortical Connectivity Analysis of Working Memory Reveals Topological

Reorganization in Theta and Alpha Bands." *Frontiers in Human Neuroscience* 11. Frontiers: 237.

David, Olivier, Stefan J Kiebel, Lee M Harrison, Jérémie Mattout, James M Kilner, and Karl J Friston. 2006. "Dynamic Causal Modeling of Evoked Responses in Eeg and Meg." *NeuroImage* 30 (4). Elsevier: 1255–72.

Delaney, Nancy Jo, and Sangit Chatterjee. 1986. "Use of the Bootstrap and Cross-Validation in Ridge Regression." *Journal of Business & Economic Statistics* 4 (2). Taylor & Francis: 255–62.

Di, Xin, and Bharat B Biswal. 2015. "Dynamic Brain Functional Connectivity Modulated by Resting-State Networks." *Brain Structure and Function* 220 (1). Springer: 37–46.

Diggle, Peter J, and Ibrahim Al Wasel. 1997. "Spectral Analysis of Replicated Biomedical Time Series." *Journal of the Royal Statistical Society: Series C (Applied Statistics)* 46 (1). Wiley Online Library: 31–71.

Edin, Fredrik, Torkel Klingberg, Pär Johansson, Fiona McNab, Jesper Tegnér, and Albert Compte. 2009. "Mechanism for Top-down Control of Working Memory Capacity." *Proceedings of the National Academy of Sciences* 106 (16). National Acad Sciences: 6802–7.

Egan, Michael F, Richard E Straub, Terry E Goldberg, Imtiaz Yakub, Joseph H Callicott, Ahmad R Hariri, Venkata S Mattay, et al. 2004. "Variation in Grm3 Affects Cognition, Prefrontal Glutamate, and Risk for Schizophrenia." *Proceedings of the National Academy of Sciences of the United States of America* 101 (34). National Acad Sciences: 12604–9.

Eklund, Anders, Thomas E Nichols, and Hans Knutsson. 2016. "Cluster Failure: Why fMRI Inferences for Spatial Extent Have Inflated False-Positive Rates." *Proceedings of the National Academy of Sciences*. National Acad Sciences, 201602413.

Elston, Robert C, Sarah Buxbaum, Kevin B Jacobs, and Jane M Olson. 2000. "Haseman and Elston Revisited." *Genetic Epidemiology* 19 (1): 1–17.

Euan, Carolina, Hernando Ombao, and Joaquin Ortega. 2016. "The Hierarchical Spectral Merger Algorithm: A New Time Series Clustering Procedure." *arXiv Preprint arXiv:1609.08569*.

Euan, Carolina, Ying Sun, and Hernando Ombao. 2017. "Coherence-Based Time Series Clustering for Brain Connectivity Visualization." *arXiv Preprint arXiv:1711.07007*.

Fiecas, Mark, and Hernando Ombao. 2011. "The Generalized Shrinkage Estimator for the Analysis of Functional Connectivity of Brain Signals." *Annals of Applied Statistics* 5: 1102–25.

———. 2016a. "Modeling the Evolution of Dynamic Brain Processes During an Associative Learning Experiment." *Journal of the American Statistical Association* 111 (516). Taylor & Francis: 1440–53.

———. 2016b. "Modeling the Evolution of Dynamic Brain Processes During an Associative Learning Experiment." *Journal of the American Statistical Association* 111: 1440–53.

Fiecas, Mark, Hernando Ombao, Dan van Lunen, Richard Baumgartner, Alexandre Coimbra, and Dai Feng. 2013. "Quantifying Temporal Correlations: A Test–retest Evaluation of Functional Connectivity in Resting-State fMRI." *NeuroImage* 65. Elsevier: 231–41.

Finn, Emily S, Xilin Shen, Dustin Scheinost, Monica D Rosenberg, Jessica Huang, Marvin M Chun, Xenophon Papademetris, and R Todd Constable. 2015. "Functional Connectome Fingerprinting: Identifying Individuals Using Patterns of Brain Connectivity." *Nature Neuroscience* 18 (11). Nature Research: 1664–71.

Friedman, Jerome, Trevor Hastie, Saharon Rosset, Robert Tibshirani, and Ji Zhu. 2004. "[Consistency in Boosting]: Discussion." *The Annals of Statistics* 32 (1). JSTOR: 102–7.

Friston, Karl J, CD Frith, PF Liddle, and RSJ Frackowiak. 1991. "Comparing Functional (Pet) Images: The Assessment of Significant Change." *Journal of Cerebral Blood Flow & Metabolism* 11 (4). SAGE Publications Sage UK: London, England: 690–99.

Fu, Zening, Shing-Chow Chan, Xin Di, Bharat Biswal, and Zhiguo Zhang. 2014. "Adaptive Covariance Estimation of Non-Stationary Processes and Its Application to Infer Dynamic Connectivity from fMRI."

IEEE Transactions on Biomedical Circuits and Systems 8 (2). IEEE: 228–39.

Gao, Xu, Babak Shahbaba, and Hernando Ombao. 2017. "Modeling Binary Time Series Using Gaussian Processes with Application to Predicting Sleep States." *arXiv Preprint arXiv:1711.05466*.

Gao, Xu, Babak Shahbaba, Norbert Fortin, and Hernando Ombao. 2016. "Evolutionary State-Space Model and Its Application to Time-Frequency Analysis of Local Field Potentials." *arXiv Preprint arXiv:1610.07271*.

Ge, Tian, Chia-Yen Chen, Benjamin M Neale, Mert R Sabuncu, and Jordan W Smoller. 2017. "Phenome-Wide Heritability Analysis of the Uk Biobank." *PLoS Genetics* 13 (4). Public Library of Science: e1006711.

Ge, Tian, Jianfeng Feng, Derrek P Hibar, Paul M Thompson, and Thomas E Nichols. 2012. "Increasing Power for Voxel-Wise Genome-Wide Association Studies: The Random Field Theory, Least Square Kernel Machines and Fast Permutation Procedures." *Neuroimage* 63 (2). Elsevier: 858–73.

Ge, Tian, Martin Reuter, Anderson M Winkler, Avram J Holmes, Phil H Lee, Lee S Tirrell, Joshua L Roffman, Randy L Buckner, Jordan W Smoller, and Mert R Sabuncu. 2016. "Multidimensional Heritability Analysis of Neuroanatomical Shape." *Nature Communications* 7. Nature Publishing Group: 13291.

Gelfand, Alan E, Athanasios Kottas, and Steven N MacEachern. 2005. "Bayesian Nonparametric Spatial Modeling with Dirichlet Process Mixing." *Journal of the American Statistical Association* 100 (471). Taylor & Francis: 1021–35.

Gelman, Andrew, and Iain Pardoe. 2006. "Bayesian Measures of Explained Variance and Pooling in Multilevel (Hierarchical) Models." *Technometrics* 48 (2). Taylor & Francis: 241–51.

Genovese, Christopher R, Nicole A Lazar, and Thomas Nichols. 2002. "Thresholding of Statistical Maps in Functional Neuroimaging Using the False Discovery Rate." *Neuroimage* 15 (4). Elsevier: 870–78.

Goeman, Jelle J, Sara A Van De Geer, and Hans C Van Houwelingen. 2006. "Testing Against a High Dimensional Alternative." *Journal of the Royal Statistical Society: Series B (Statistical Methodology)* 68 (3). Wiley Online Library: 477–93.

Goeman, Jelle J, Sara A Van De Geer, Floor De Kort, and Hans C Van Houwelingen. 2004. "A Global Test for Groups of Genes: Testing Association with a Clinical Outcome." *Bioinformatics* 20 (1). Oxford University Press: 93–99.

Golub, Gene H, Michael Heath, and Grace Wahba. 1979. "Generalized Cross-Validation as a Method for Choosing a Good Ridge Parameter." *Technometrics* 21 (2). Taylor & Francis: 215–23.

Gonzalez-Castillo, Javier, and Peter A Bandettini. 2017. "Task-Based Dynamic Functional Connectivity: Recent Findings and Open Questions." *Neuroimage*. Elsevier.

Gorfine, Malka, Sonja I Berndt, Jenny Chang-Claude, Michael Hoffmeister, Loic Le Marchand, John Potter, Martha L Slattery, Nir Keret, Ulrike Peters, and Li Hsu. 2017. "Heritability Estimation Using a Regularized Regression Approach (Herra): Applicable to Continuous, Dichotomous or Age-at-Onset Outcome." *PloS One* 12 (8). Public Library of Science: e0181269.

Gorrostieta, Cristina, Mark Fiecas, Hernando Ombao, Erin Burke, and Steven C. Cramer. 2013. "Hierarchical Vector Auto-Regressive Models and Their Applications to Multi-Subject Effective Connectivity." *Frontiers in Computational Neuroscience* 7 (159): 1–11.

Gorrostieta, Cristina, Hernando Ombao, and Rainer von Sachs. 2016. "Time-Dependent Dual Frequency Coherency in Multivariate Non-Stationary Time Series." Submission.

Gorrostieta, Cristina, Hernando Ombao, Patrick Bedard, and Jerome.N. Sanes. 2012. "Investigating Stimulus-Induced Changes in Connectivity Using Mixed Effects Vector Autoregressive Models." *NeuroImage* 59: 3347–55.

Gower, John C. 1966. "Some Distance Properties of Latent Root and Vector Methods Used in Multivariate

Analysis." *Biometrika* 53 (3-4). Oxford University Press: 325–38.

———. 1971. "A General Coefficient of Similarity and Some of Its Properties." *Biometrics*. JSTOR, 857–71.

Guhaniyogi, Rajarshi, Shaan Qamar, and David B. Dunson. 2016. "Bayesian Tensor Regression." *Arxiv*, no. 1509.06490.

Harris, Sarah E, Helen Fox, Alan F Wright, Caroline Hayward, John M Starr, Lawrence J Whalley, and Ian J Deary. 2007. "A Genetic Association Analysis of Cognitive Ability and Cognitive Ageing Using 325 Markers for 109 Genes Associated with Oxidative Stress or Cognition." *BMC Genetics* 8 (1). BioMed Central: 43.

Harush, Uzi, and Baruch Barzel. 2017. "Dynamic Patterns of Information Flow in Complex Networks." *Nature Communications* 8 (1). Nature Publishing Group: 2181.

Havlicek, Martin, Jiri Jan, Milan Brazdil, and Vince D Calhoun. 2010. "Dynamic Granger Causality Based on Kalman Filter for Evaluation of Functional Network Connectivity in fMRI Data." *Neuroimage* 53 (1). Elsevier: 65–77.

Hindriks, Rikkert, Mohit H Adhikari, Yusuke Murayama, Marco Ganzetti, Dante Mantini, Nikos K Logothetis, and Gustavo Deco. 2016. "Can Sliding-Window Correlations Reveal Dynamic Functional Connectivity in Resting-State fMRI?" *Neuroimage* 127. Elsevier: 242–56.

Hodges, James S. 1998. "Some Algebra and Geometry for Hierarchical Models, Applied to Diagnostics." *Journal of the Royal Statistical Society: Series B (Statistical Methodology)* 60 (3). Wiley Online Library: 497–536.

Hoerl, Arthur E, Robert W Kannard, and Kent F Baldwin. 1975. "Ridge Regression: Some Simulations." *Communications in Statistics-Theory and Methods* 4 (2). Taylor & Francis: 105–23.

Hooper, John W. 1959. "Simultaneous Equations and Canonical Correlation Theory." *Econometrica: Journal of the Econometric Society*. JSTOR, 245–56.

Hua, Wen-Yu, and Debashis Ghosh. 2015. "Equivalence of Kernel Machine Regression and Kernel Distance Covariance for Multidimensional Phenotype Association Studies." *Biometrics* 71 (3). Wiley Online Library: 812–20.

Hua, Wen-Yu, Thomas E Nichols, Debashis Ghosh, and Alzheimer's Disease Neuroimaging Initiative. 2014. "Multiple Comparison Procedures for Neuroimaging Genomewide Association Studies." *Biostatistics* 16 (1). Oxford University Press: 17–30.

Huang, Meiyan, Thomas Nichols, Chao Huang, Yang Yu, Zhaohua Lu, Rebecca C Knickmeyer, Qianjin Feng, Hongtu Zhu, Alzheimer's Disease Neuroimaging Initiative, and others. 2015. "FVGWAS: Fast Voxelwise Genome Wide Association Analysis of Large-Scale Imaging Genetic Data." *Neuroimage* 118. Elsevier: 613–27.

Huh, Myung-Hoe, and Myoungshic Jhun. 2001. "Random Permutation Testing in Multiple Linear Regression." *Communications in Statistics-Theory and Methods* 30 (10). Taylor & Francis: 2023–32.

Hung, Hung, and Chen-Chien Wang. 2012. "Matrix Variate Logistic Regression Model with Application to Eeg Data." *Biostatistics* 14 (1). Oxford University Press: 189–202.

Hutchison, R Matthew, Thilo Womelsdorf, Elena A Allen, Peter A Bandettini, Vince D Calhoun, Maurizio Corbetta, Stefania Della Penna, et al. 2013. "Dynamic Functional Connectivity: Promise, Issues, and Interpretations." *Neuroimage* 80. Elsevier: 360–78.

Jiang, Zheng-yan. 2005. "Study on Eeg Power and Coherence in Patients with Mild Cognitive Impairment During Working Memory Task." *Journal of Zhejiang University-Science B* 6 (12). Springer: 1213–9.

Kang, Hakmook, Hernando Ombao, Christopher Fonnesbeck, Zhaohua Ding, and Victoria L Morgan. 2017. "A Bayesian Double Fusion Model for Resting-State Brain Connectivity Using Joint Functional and Structural Data." *Brain Connectivity* 7. Mary Ann Liebert, Inc. r: 219–27.

Kherif, Ferath, Jean-Baptiste Poline, Sébastien Mériaux, Habib Benali, Guillaume Flandin, and Matthew Brett. 2003. "Group Analysis in Functional Neuroimaging: Selecting Subjects Using Similarity Measures."

NeuroImage 20 (4). Elsevier: 2197–2208.

Kim, Hyunwoo J, Nagesh Adluru, Heemanshu Suri, Baba C Vemuri, Sterling C Johnson, and Vikas Singh. 2017. "Riemannian Nonlinear Mixed Effects Models: Analyzing Longitudinal Deformations in Neuroimaging." In *Proceedings of Ieee Conference on Computer Vision and Pattern Recognition (Cvpr)*.

Kim, Junghi, Jeffrey R Wozniak, Bryon A Mueller, and Wei Pan. 2015. "Testing Group Differences in Brain Functional Connectivity: Using Correlations or Partial Correlations?" *Brain Connectivity* 5 (4). Mary Ann Liebert, Inc. 140 Huguenot Street, 3rd Floor New Rochelle, NY 10801 USA: 214–31.

Kirch, Claudia, Birte Muhsal, and Hernando Ombao. 2015a. "Detection of Changes in Multivariate Time Series with Application to Eeg Data." *Journal of the American Statistical Association* 110 (511). Taylor & Francis: 1197–1216.

———. 2015b. "Detection of Changes in Multivariate Time Series with Application to Eeg Data." *Journal of the American Statistical Association* 110: 1197–1216.

Kitzbichler, Manfred G, Richard NA Henson, Marie L Smith, Pradeep J Nathan, and Edward T Bullmore. 2011. "Cognitive Effort Drives Workspace Configuration of Human Brain Functional Networks." *Journal of Neuroscience* 31 (22). Soc Neuroscience: 8259–70.

Klingberg, Torkel, Brendan T O'Sullivan, and Per E Roland. 1997. "Bilateral Activation of Fronto-Parietal Networks by Incrementing Demand in a Working Memory Task." *Cerebral Cortex (New York, NY: 1991)* 7 (5): 465–71.

Kwee, Lydia Coulter, Dawei Liu, Xihong Lin, Debashis Ghosh, and Michael P Epstein. 2008. "A Powerful and Flexible Multilocus Association Test for Quantitative Traits." *The American Journal of Human Genetics* 82 (2). Elsevier: 386–97.

Laird, Nan M, and James H Ware. 1982. "Random-Effects Models for Longitudinal Data." *Biometrics*. JSTOR, 963–74.

Lan, Shiwei, Andrew Holbrook, Norbert J Fortin, Ombao Hernando, and Babak Shahbaba. 2017. "Flexible Bayesian Dynamic Modeling of Covariance and Correlation Matrices." *arXiv Preprint arXiv:1711.02869*.

Langer, Nicolas, Claudia C von Bastian, Helen Wirz, Klaus Oberauer, and Lutz Jäncke. 2013. "The Effects of Working Memory Training on Functional Brain Network Efficiency." *Cortex* 49 (9). Elsevier: 2424–38.

Lasky-Su, Jessica. 2017. "Chapter 19 - Statistical Techniques for Genetic Analysis." In *Clinical and Translational Science (Second Edition)*, edited by David Robertson and Gordon H. Williams, Second Edition, 347–62. Academic Press.

Lee, Jason D, Dennis L Sun, Yuekai Sun, Jonathan E Taylor, and others. 2016. "Exact Post-Selection Inference, with Application to the Lasso." *The Annals of Statistics* 44 (3). Institute of Mathematical Statistics: 907–27.

Leonardi, Nora, and Dimitri Van De Ville. 2015. "On Spurious and Real Fluctuations of Dynamic Functional Connectivity During Rest." *Neuroimage* 104. Elsevier: 430–36.

Li, Hao, Sally Wetten, Li Li, Pamela L St Jean, Ruchi Upmanyu, Linda Surh, David Hosford, et al. 2008. "Candidate Single-Nucleotide Polymorphisms from a Genomewide Association Study of Alzheimer Disease." *Archives of Neurology* 65 (1). American Medical Association: 45–53.

Li, Hongzhe. 2012. "U-Statistics in Genetic Association Studies." *Human Genetics* 131 (9). Springer: 1395–1401.

Li, Hongzhe, Zhi Wei, and John Maris. 2009. "A Hidden Markov Random Field Model for Genome-Wide Association Studies." *Biostatistics* 11 (1). Oxford University Press: 139–50.

Li, Zeran, Jorge L. Del Aguila, Umber Dube, John Budde, Rita Martinez, Kathlee Black, Qingli Xiao, et al. 2018. "Genetic Variants Associated with Alzheimers Disease Confer Different Cerebral Cortex Cell-Type

Population Structure." *bioRxiv*. Cold Spring Harbor Laboratory. doi:10.1101/266296.

Lin, Dahua, Eric Grimson, and John W Fisher. 2010. "Construction of Dependent Dirichlet Processes Based on Poisson Processes." In *Advances in Neural Information Processing Systems*, 1396–1404.

Linden, David EJ, Robert A Bittner, Lars Muckli, James A Waltz, Nikolaus Kriegeskorte, Rainer Goebel, Wolf Singer, and Matthias HJ Munk. 2003. "Cortical Capacity Constraints for Visual Working Memory: Dissociation of fMRI Load Effects in a Fronto-Parietal Network." *Neuroimage* 20 (3). Elsevier: 1518–30.

Lindquist, Martin. 2008. "The Statistical Analysis of fMRI Data." *Statistical Science*. JSTOR, 439–64.

Lindquist, Martin A, Yuting Xu, Mary Beth Nebel, and Brain S Caffo. 2014. "Evaluating Dynamic Bivariate Correlations in Resting-State fMRI: A Comparison Study and a New Approach." *Neuroimage* 101. Elsevier: 531–46.

Liu, Dawei, Xihong Lin, and Debashis Ghosh. 2007. "Semiparametric Regression of Multidimensional Genetic Pathway Data: Least-Squares Kernel Machines and Linear Mixed Models." *Biometrics* 63 (4). Wiley Online Library: 1079–88.

Liu, Jingyu, Godfrey Pearlson, Andreas Windemuth, Gualberto Ruano, Nora I Perrone-Bizzozero, and Vince Calhoun. 2009. "Combining fMRI and Snp Data to Investigate Connections Between Brain Function and Genetics Using Parallel Ica." *Human Brain Mapping* 30 (1). Wiley Online Library: 241–55.

Lu, Zhao-Hua, Zakaria Khondker, Joseph G Ibrahim, Yue Wang, Hongtu Zhu, Alzheimer's Disease Neuroimaging Initiative, and others. 2017. "Bayesian Longitudinal Low-Rank Regression Models for Imaging Genetic Data from Longitudinal Studies." *NeuroImage* 149. Elsevier: 305–22.

Madhyastha, Tara M, Mary K Askren, Peter Boord, and Thomas J Grabowski. 2015. "Dynamic Connectivity at Rest Predicts Attention Task Performance." *Brain Connectivity* 5 (1). Mary Ann Liebert, Inc. 140 Huguenot Street, 3rd Floor New Rochelle, NY 10801 USA: 45–59.

Mahyari, Arash Golibagh, David M Zoltowski, Edward M Bernat, and Selin Aviyente. 2017. "A Tensor Decomposition-Based Approach for Detecting Dynamic Network States from Eeg." *IEEE Transactions on Biomedical Engineering* 64 (1). IEEE: 225–37.

Maity, Arnab, and Xihong Lin. 2011. "Powerful Tests for Detecting a Gene Effect in the Presence of Possible Gene–Gene Interactions Using Garrote Kernel Machines." *Biometrics* 67 (4). Wiley Online Library: 1271–84.

Maity, Arnab, Patrick F Sullivan, and Jun-ing Tzeng. 2012. "Multivariate Phenotype Association Analysis by Marker-Set Kernel Machine Regression." *Genetic Epidemiology* 36 (7). Wiley Online Library: 686–95.

Maldonado, Yolanda Munoz. 2009. "Mixed Models, Posterior Means and Penalized Least-Squares." *Lecture Notes-Monograph Series*. JSTOR, 216–36.

Mantel, Nathan. 1967a. "The Detection of Disease Clustering and a Generalized Regression Approach." *Cancer Research* 27 (2 Part 1). AACR: 209–20.

———. 1967b. "The Detection of Disease Clustering and a Generalized Regression Approach." *Cancer Research* 27 (2 Part 1). AACR: 209–20.

Martins-Filho, Carlos, and Feng Yao. 2006. "A Note on the Use of V and U Statistics in Nonparametric Models of Regression." *Annals of the Institute of Statistical Mathematics* 58 (2). Springer: 389–406.

McIntosh, Anthony Randal, and Nancy J Lobaugh. 2004. "Partial Least Squares Analysis of Neuroimaging Data: Applications and Advances." *Neuroimage* 23. Elsevier: S250–S263.

Meda, Shashwath A, Balaji Narayanan, Jingyu Liu, Nora I Perrone-Bizzozero, Michael C Stevens, Vince D Calhoun, David C Glahn, et al. 2012. "A Large Scale Multivariate Parallel Ica Method Reveals Novel Imaging–genetic Relationships for Alzheimer's Disease in the Adni Cohort." *Neuroimage* 60 (3). Elsevier:

1608–21.

Murphy, Kevin P. 1998. “Switching Kalman Filters.” Citeseer.

Nadarajah, Saralees, and Samuel Kotz. 2008. “Exact Distribution of the Max/Min of Two Gaussian Random Variables.” *IEEE Transactions on Very Large Scale Integration (VLSI) Systems* 16 (2). IEEE: 210–12.

Nathoo, Farouk S, Linglong Kong, and Hongtu Zhu. 2017. “A Review of Statistical Methods in Imaging Genetics.” *arXiv Preprint arXiv:1707.07332*.

Nguyen, Vinh T, Michael Breakspear, and Ross Cunnington. 2014. “Fusing Concurrent Eeg–fMRI with Dynamic Causal Modeling: Application to Effective Connectivity During Face Perception.” *Neuroimage* 102. Elsevier: 60–70.

Nichols, Thomas E. 2012. “Multiple Testing Corrections, Nonparametric Methods, and Random Field Theory.” *Neuroimage* 62 (2). Elsevier: 811–15.

Nichols, Thomas E, and Andrew P Holmes. 2002. “Nonparametric Permutation Tests for Functional Neuroimaging: A Primer with Examples.” *Human Brain Mapping* 15 (1). Wiley Online Library: 1–25.

Nielsen, Søren FV, Mikkel N Schmidt, Kristoffer H Madsen, and Morten Mørup. 2017. “Predictive Assessment of Models for Dynamic Functional Connectivity.” *NeuroImage*. Elsevier.

Niethammer, Martin, Chris C Tang, Peter A LeWitt, Ali R Rezai, Maureen A Leehey, Steven G Ojemann, Alice W Flaherty, et al. 2017. “Long-Term Follow-up of a Randomized Aav2-Gad Gene Therapy Trial for Parkinson’s Disease.” *JCI Insight* 2 (7). American Society for Clinical Investigation.

Olson, Chester L. 1976. “On Choosing a Test Statistic in Multivariate Analysis of Variance.” *Psychological Bulletin* 83 (4). American Psychological Association: 579.

Ombao, Hernando, and Sebastien Van Bellegem. 2008. “Coherence Analysis: A Linear Filtering Point of View.” *IEEE Transactions on Signal Processing* 56 (6): 2259–66.

Ombao, Hernando, Mark Fiecas, Chee-Ming Ting, and Yin Fen Low. 2017. “Statistical Models for Brain Signals with Properties That Evolve Across Trials.” *NeuroImage*. Elsevier.

Ombao, Hernando, Martin Lindquist, Wesley Thompson, and John Aston. 2016. *Handbook of Statistical Methods for Neuroimaging*. CRC Press.

Omelka, Marek, and Šárka Hudecová. 2013. “A Comparison of the Mantel Test with a Generalised Distance Covariance Test.” *Environmetrics* 24 (7). Wiley Online Library: 449–60.

Onton, Julie, Arnaud Delorme, and Scott Makeig. 2005. “Frontal Midline Eeg Dynamics During Working Memory.” *Neuroimage* 27 (2). Elsevier: 341–56.

Palfi, Stéphane, Jean Marc Gurruchaga, G Scott Ralph, Helene Lepetit, Sonia Lavisse, Philip C Buttery, Colin Watts, et al. 2014. “Long-Term Safety and Tolerability of Prosavin, a Lentiviral Vector-Based Gene Therapy for Parkinson’s Disease: A Dose Escalation, Open-Label, Phase 1/2 Trial.” *The Lancet* 383 (9923). Elsevier: 1138–46.

Palva, J Matias, Simo Monto, Shrikanth Kulashekhar, and Satu Palva. 2010. “Neuronal Synchrony Reveals Working Memory Networks and Predicts Individual Memory Capacity.” *Proceedings of the National Academy of Sciences* 107 (16). National Acad Sciences: 7580–5.

Palva, Satu, Simo Monto, and J Matias Palva. 2010. “Graph Properties of Synchronized Cortical Networks During Visual Working Memory Maintenance.” *Neuroimage* 49 (4). Elsevier: 3257–68.

Pan, Wei. 2011. “Relationship Between Genomic Distance-Based Regression and Kernel Machine Regression for Multi-Marker Association Testing.” *Genetic Epidemiology* 35 (4). Wiley Online Library: 211–16.

Park, Timothy, Idris A Eckley, and Hernando C Ombao. 2014. “Estimating Time-Evolving Partial Coherence Between Signals via Multivariate Locally Stationary Wavelet Processes.” *IEEE Transactions on Signal*

Processing 62 (20). IEEE: 5240–50.

Pavlov, Yuri G, and Boris Kotchoubey. 2017. "EEG Correlates of Working Memory Performance in Females." *BMC Neuroscience* 18 (1). BioMed Central: 26.

Pillai, KCS. 1955. "Some New Test Criteria in Multivariate Analysis." *The Annals of Mathematical Statistics*. JSTOR, 117–21.

Pluta, Dustin, Tong Shen, Gui Xue, Chuansheng Chen, Zhaoxia Yu, and Hernando Ombao. 2017. "Adaptive Mantel Test for Penalized Inference, with Applications to Imaging Genetics." *UC Irvine Statistics Research Paper*.

Rashid, Barnaly, Eswar Damaraju, Godfrey D Pearlson, and Vince D Calhoun. 2014. "Dynamic Connectivity States Estimated from Resting fMRI Identify Differences Among Schizophrenia, Bipolar Disorder, and Healthy Control Subjects." *Frontiers in Human Neuroscience* 8. Frontiers: 897.

Raz, Hui, Jonathanand Zheng, Hernando Ombao, and Bruce Turetsky. 2003. "Statistical Test for fMRI Based on Experimental Randomization." *NeuroImage* 19: 226–32.

Reiss, Philip T, M Henry H Stevens, Zarrar Shehzad, Eva Petkova, and Michael P Milham. 2010. "On Distance-Based Permutation Tests for Between-Group Comparisons." *Biometrics* 66 (2). Wiley Online Library: 636–43.

Robert, Paul, and Yves Escoufier. 1976. "A Unifying Tool for Linear Multivariate Statistical Methods: The Rv-Coefficient." *Applied Statistics*. JSTOR, 257–65.

Robinson, George K. 1991. "That Blup Is a Good Thing: The Estimation of Random Effects." *Statistical Science*. JSTOR, 15–32.

Rogers, Jeffrey, Peter Kochunov, Jack Lancaster, Wendy Shelledy, David Glahn, John Blangero, and Peter Fox. 2007. "Heritability of Brain Volume, Surface Area and Shape: An Mri Study in an Extended Pedigree of Baboons." *Human Brain Mapping* 28 (6). Wiley Online Library: 576–83.

Salimi-Khorshidi, Gholamreza, Stephen M Smith, John R Keltner, Tor D Wager, and Thomas E Nichols. 2009. "Meta-Analysis of Neuroimaging Data: A Comparison of Image-Based and Coordinate-Based Pooling of Studies." *Neuroimage* 45 (3). Elsevier: 810–23.

Sambataro, Fabio, Eleonora Visintin, Nadja Doerig, Janis Brakowski, Martin Grosse Holtforth, Erich Seifritz, and Simona Spinelli. 2017. "Altered Dynamics of Brain Connectivity in Major Depressive Disorder at-Rest and During Task Performance." *Psychiatry Research: Neuroimaging* 259. Elsevier: 1–9.

Samdin, S Balqis, Chee-Ming Ting, Hernando Ombao, and Sh-Hussain Salleh. 2017. "A Unified Estimation Framework for State-Related Changes in Effective Brain Connectivity." *IEEE Transactions on Biomedical Engineering* 64 (4). IEEE: 844–58.

Sarnthein, J, Hellmuth Petsche, P Rappelsberger, GL Shaw, and A Von Stein. 1998. "Synchronization Between Prefrontal and Posterior Association Cortex During Human Working Memory." *Proceedings of the National Academy of Sciences* 95 (12). National Acad Sciences: 7092–6.

Sauseng, Paul, Wolfgang Klimesch, Manuel Schabus, and Michael Doppelmayr. 2005. "Fronto-Parietal Eeg Coherence in Theta and Upper Alpha Reflect Central Executive Functions of Working Memory." *International Journal of Psychophysiology* 57 (2). Elsevier: 97–103.

Schaid, Daniel J. 2010a. "Genomic Similarity and Kernel Methods I: Advancements by Building on Mathematical and Statistical Foundations." *Human Heredity* 70 (2). Karger Publishers: 109–31.

———. 2010b. "Genomic Similarity and Kernel Methods Ii: Methods for Genomic Information." *Human Heredity* 70 (2). Karger Publishers: 132–40.

Schwartzman, Armin. 2006. "Random Ellipsoids and False Discovery Rates: Statistics for Diffusion Tensor Imaging Data." PhD thesis, Stanford University.

Sejdinovic, Dino, Bharath Sriperumbudur, Arthur Gretton, and Kenji Fukumizu. 2013. "Equivalence of

Distance-Based and Rkhs-Based Statistics in Hypothesis Testing." *The Annals of Statistics*. JSTOR, 2263–91.

Shehzad, Zarrar, Clare Kelly, Philip T Reiss, R Cameron Craddock, John W Emerson, Katie McMahon, David A Copland, F Xavier Castellanos, and Michael P Milham. 2014. "A Multivariate Distance-Based Analytic Framework for Connectome-Wide Association Studies." *Neuroimage* 93. Elsevier: 74–94.

Shen, Kai-Kai, Stephen Rose, Jurgen Fripp, Katie L McMahon, Greig I de Zubicaray, Nicholas G Martin, Paul M Thompson, Margaret J Wright, and Olivier Salvado. 2014. "Investigating Brain Connectivity Heritability in a Twin Study Using Diffusion Imaging Data." *NeuroImage* 100. Elsevier: 628–41.

Shu, Hai, Bin Nan, and Robert Koeppe. 2015. "Multiple Testing for Neuroimaging via Hidden Markov Random Field." *Biometrics* 71 (3). Wiley Online Library: 741–50.

Simons, Jon S, and Hugo J Spiers. 2003. "Prefrontal and Medial Temporal Lobe Interactions in Long-Term Memory." *Nature Reviews Neuroscience* 4 (8): 637–48.

Smilde, Age K, Henk AL Kiers, S Bijlsma, CM Rubingh, and MJ Van Erk. 2008. "Matrix Correlations for High-Dimensional Data: The Modified Rv-Coefficient." *Bioinformatics* 25 (3). Oxford University Press: 401–5.

Sokal, Robert R. 1979. "Society of Systematic Biologists Testing Statistical Significance of Geographic Variation Patterns." *Source: Systematic Zoology* 28 (2): 227–32. http://www.jstor.org/stable/2412528 http://about.jstor.org/terms.

Sporns, Olaf, and Rolf Kötter. 2004. "Motifs in Brain Networks." *PLoS Biology* 2 (11). Public Library of Science: e369.

Stein, Jason L, Xue Hua, Suh Lee, April J Ho, Alex D Leow, Arthur W Toga, Andrew J Saykin, et al. 2010. "Voxelwise Genome-Wide Association Study (vGWAS)." *Neuroimage* 53 (3). Elsevier: 1160–74.

Stingo, Francesco C, Michele Guindani, Marina Vannucci, and Vince D Calhoun. 2013. "An Integrative Bayesian Modeling Approach to Imaging Genetics." *Journal of the American Statistical Association* 108 (503). Taylor & Francis: 876–91.

Sudre, Gustavo, Saadia Choudhuri, Eszter Szekely, Teighlor Bonner, Elanda Goduni, Wendy Sharp, and Philip Shaw. 2017. "Estimating the Heritability of Structural and Functional Brain Connectivity in Families Affected by Attention-Deficit/Hyperactivity Disorder." *JAMA Psychiatry* 74 (1). American Medical Association: 76–84.

Sun, Felicia, L Miller, and Mark D'Esposito. 2004. "Measuring Interregional Functional Connectivity Using Coherence and Partial Coherence Analyses of fMRI Data." *NeuroImage* 21: 647–58.

Sun, Wenguang, Brian J Reich, T Tony Cai, Michele Guindani, and Armin Schwartzman. 2015. "False Discovery Control in Large-Scale Spatial Multiple Testing." *Journal of the Royal Statistical Society: Series B (Statistical Methodology)* 77 (1). Wiley Online Library: 59–83.

Székely, Gábor J, Maria L Rizzo, Nail K Bakirov, and others. 2007. "Measuring and Testing Dependence by Correlation of Distances." *The Annals of Statistics* 35 (6). Institute of Mathematical Statistics: 2769–94.

Taghia, Jalil, Srikanth Ryali, Tianwen Chen, Kaustubh Supekar, Weidong Cai, and Vinod Menon. 2017. "Bayesian Switching Factor Analysis for Estimating Time-Varying Functional Connectivity in fMRI." *NeuroImage* 155. Elsevier: 271–90.

Tan, Hui-Ru, Chee-Ming Ting, Sh-Hussain Salleh, I Kamarulafizam, and AM Noor. 2016. "Shrinkage Estimation of High-Dimensional Vector Autoregressions for Effective Connectivity in fMRI." In *Biomedical Engineering and Sciences (Iecbes), 2016 Ieee Embs Conference on*, 121–26. IEEE.

Tang, Wei, Hesheng Liu, Linda Douw, Mark A Kramer, Uri T Eden, Matti S Hämäläinen, and Steven M Stufflebeam. 2017. "Dynamic Connectivity Modulates Local Activity in the Core Regions of the Default-Mode Network." *Proceedings of the National Academy of Sciences* 114 (36). National Acad Sciences: 9713–8.

Thompson, Paul M, Tian Ge, David C Glahn, Neda Jahanshad, and Thomas E Nichols. 2013. "Genetics of

the Connectome." *Neuroimage* 80. Elsevier: 475–88.

Thompson, William Hedley, and Peter Fransson. 2017. "A Common Framework for the Problem of Deriving Estimates of Dynamic Functional Brain Connectivity." *NeuroImage*. Elsevier.

Tibshirani, Robert. 1996. "Regression Shrinkage and Selection via the Lasso." *Journal of the Royal Statistical Society. Series B (Methodological)*. JSTOR, 267–88.

Ting, Chee-Ming, Hernando Ombao, and Sh-Hussain Salleh. 2017. "Multi-Scale Factor Analysis of High-Dimensional Brain Signals." *arXiv Preprint arXiv:1705.06502*.

Ting, Chee-Ming, Hernando Ombao, S Balqis Samdin, and Sh-Hussain Salleh. 2017. "Estimating Dynamic Connectivity States in fMRI Using Regime-Switching Factor Models." *IEEE Transactions on Medical Imaging*. IEEE.

Tzeng, Jung-Ying, Daowen Zhang, Sheng-Mao Chang, Duncan C Thomas, and Marie Davidian. 2009. "Gene-Trait Similarity Regression for Multimarker-Based Association Analysis." *Biometrics* 65 (3). Wiley Online Library: 822–32.

Tzeng, Jung-Ying, Daowen Zhang, Monnat Pongpanich, Chris Smith, Mark I McCarthy, Michele M Sale, Bradford B Worrall, Fang-Chi Hsu, Duncan C Thomas, and Patrick F Sullivan. 2011. "Studying Gene and Gene-Environment Effects of Uncommon and Common Variants on Continuous Traits: A Marker-Set Approach Using Gene-Trait Similarity Regression." *The American Journal of Human Genetics* 89 (2). Elsevier: 277–88.

Uludağ, Kâmil, and Alard Roebroeck. 2014. "General Overview on the Merits of Multimodal Neuroimaging Data Fusion." *Neuroimage* 102. Elsevier: 3–10.

Vergara, Victor M, Alvaro Ulloa, Vince D Calhoun, David Boutte, Jiayu Chen, and Jingyu Liu. 2014. "A Three-Way Parallel Ica Approach to Analyze Links Among Genetics, Brain Structure and Brain Function." *Neuroimage* 98. Elsevier: 386–94.

Vidaurre, Diego, Stephen M Smith, and Mark W Woolrich. 2017. "Brain Network Dynamics Are Hierarchically Organized in Time." *Proceedings of the National Academy of Sciences* 114 (48). National Acad Sciences: 12827–32.

Visscher, Peter M, Gibran Hemani, Anna AE Vinkhuyzen, Guo-Bo Chen, Sang Hong Lee, Naomi R Wray, Michael E Goddard, and Jian Yang. 2014. "Statistical Power to Detect Genetic (Co) Variance of Complex Traits Using Snp Data in Unrelated Samples." *PLoS Genetics* 10 (4). Public Library of Science: e1004269.

Vogler, C, L Gschwind, D Coynel, V Freytag, A Milnik, T Egli, A Heck, D Jf De Quervain, and A Papassotiropoulos. 2014. "Substantial Snp-Based Heritability Estimates for Working Memory Performance." *Translational Psychiatry* 4 (9). Nature Publishing Group: e438.

Vounou, Maria, Thomas E Nichols, Giovanni Montana, Alzheimer's Disease Neuroimaging Initiative, and others. 2010. "Discovering Genetic Associations with High-Dimensional Neuroimaging Phenotypes: A Sparse Reduced-Rank Regression Approach." *Neuroimage* 53 (3). Elsevier: 1147–59.

Wager, Tor D, Martin Lindquist, and Lauren Kaplan. 2007. "Meta-Analysis of Functional Neuroimaging Data: Current and Future Directions." *Social Cognitive and Affective Neuroscience* 2 (2). Oxford University Press: 150–58.

Wang, Xuefeng, Seunggeun Lee, Xiaofeng Zhu, Susan Redline, and Xihong Lin. 2013. "GEE-Based Snp Set Association Test for Continuous and Discrete Traits in Family-Based Association Studies." *Genetic Epidemiology* 37 (8). Wiley Online Library: 778–86.

Warnick, Ryan, Michele Guindani, Erik Erhardt, Elena Allen, Vince Calhoun, and Marina Vannucci. 2017. "A Bayesian Approach for Estimating Dynamic Functional Network Connectivity in fMRI Data." *Journal of the American Statistical Association* – (just-accepted). Taylor & Francis.

Wei, Zhi, Mingyao Li, Timothy Rebbeck, and Hongzhe Li. 2008. "U-Statistics-Based Tests for Multiple

Genes in Genetic Association Studies." *Annals of Human Genetics* 72 (6). Wiley Online Library: 821–33.

Wessel, Jennifer, and Nicholas J Schork. 2006. "Generalized Genomic Distance–based Regression Methodology for Multilocus Association Analysis." *The American Journal of Human Genetics* 79 (5). Elsevier: 792–806.

"What Are Single Nucleotide Polymorphisms (Snps)? - Genetics Home Reference." n.d. *U.S. National Library of Medicine*. National Institutes of Health. https://ghr.nlm.nih.gov/primer/genomicresearch/snp.

Wieringen, Wessel N van. 2015. "Lecture Notes on Ridge Regression." *arXiv Preprint arXiv:1509.09169*.

Winkler, Anderson M, Gerard R Ridgway, Matthew A Webster, Stephen M Smith, and Thomas E Nichols. 2014. "Permutation Inference for the General Linear Model." *Neuroimage* 92. Elsevier: 381–97.

Woo, Choong-Wan, Anjali Krishnan, and Tor D Wager. 2014. "Cluster-Extent Based Thresholding in fMRI Analyses: Pitfalls and Recommendations." *Neuroimage* 91. Elsevier: 412–19.

Woodward, Neil D, and Carissa J Cascio. 2015. "Resting-State Functional Connectivity in Psychiatric Disorders." *JAMA Psychiatry* 72 (8). American Medical Association: 743–44.

Worsley, Keith J, Alan C Evans, S Marrett, and P Neelin. 1992. "A Three-Dimensional Statistical Analysis for Cbf Activation Studies in Human Brain." *Journal of Cerebral Blood Flow & Metabolism* 12 (6). SAGE Publications Sage UK: London, England: 900–918.

Worsley, Keith J, CH Liao, J Aston, V Petre, GH Duncan, F Morales, and AC Evans. 2002. "A General Statistical Analysis for fMRI Data." *Neuroimage* 15 (1). Elsevier: 1–15.

Wu, Michael C, Peter Kraft, Michael P Epstein, Deanne M Taylor, Stephen J Chanock, David J Hunter, and Xihong Lin. 2010. "Powerful Snp-Set Analysis for Case-Control Genome-Wide Association Studies." *The American Journal of Human Genetics* 86 (6). Elsevier: 929–42.

Wu, Michael C, Seunggeun Lee, Tianxi Cai, Yun Li, Michael Boehnke, and Xihong Lin. 2011. "Rare-Variant Association Testing for Sequencing Data with the Sequence Kernel Association Test." *The American Journal of Human Genetics* 89 (1). Elsevier: 82–93.

Xu, Gongjun, Lifeng Lin, Peng Wei, and Wei Pan. 2016. "An Adaptive Two-Sample Test for High-Dimensional Means." *Biometrika* 103 (3). Oxford University Press: 609–24.

Xu, Junhai, Xuntao Yin, Haitao Ge, Yan Han, Zengchang Pang, Baolin Liu, Shuwei Liu, and Karl Friston. 2016. "Heritability of the Effective Connectivity in the Resting-State Default Mode Network." *Cerebral Cortex*, 1–9.

Xu, Zhiyuan, Chong Wu, Wei Pan, Alzheimer's Disease Neuroimaging Initiative, and others. 2017. "Imaging-Wide Association Study: Integrating Imaging Endophenotypes in Gwas." *NeuroImage*. Elsevier.

Xu, Zhiyuan, Gongjun Xu, and Wei Pan. 2017. "Adaptive Testing for Association Between Two Random Vectors in Moderate to High Dimensions." *Genetic Epidemiology*. Wiley Online Library.

Xue, Gui, Zhonglin Lu, Irwin P Levin, Joshua A Weller, Xiangrui Li, and Antoine Bechara. 2008. "Functional Dissociations of Risk and Reward Processing in the Medial Prefrontal Cortex." *Cerebral Cortex* 19 (5). Oxford University Press: 1019–27.

Xue, Wenqiong, F DuBois Bowman, Anthony V Pileggi, and Andrew R Mayer. 2015. "A Multimodal Approach for Determining Brain Networks by Jointly Modeling Functional and Structural Connectivity." *Frontiers in Computational Neuroscience* 9. Frontiers Media SA.

Yaesoubi, Maziar, Robyn L Miller, and Vince D Calhoun. 2017. "Time-Varying Spectral Power of Resting-State fMRI Networks Reveal Cross-Frequency Dependence in Dynamic Connectivity." *PloS One* 12 (2). Public Library of Science: e0171647.

Yang, Jian, Beben Benyamin, Brian P McEvoy, Scott Gordon, Anjali K Henders, Dale R Nyholt, Pamela A Madden, et al. 2010. "Common Snps Explain a Large Proportion of the Heritability for Human Height."

Nature Genetics 42 (7). Nature Research: 565–69.

Yang, Jian, S Hong Lee, Michael E Goddard, and Peter M Visscher. 2011. "GCTA: A Tool for Genome-Wide Complex Trait Analysis." *The American Journal of Human Genetics* 88 (1). Elsevier: 76–82.

Yang, Ying, Elissa Aminoff, Michael Tarr, and Kass E Robert. 2016. "A State-Space Model of Cross-Region Dynamic Connectivity in Meg/Eeg." In *Advances in Neural Information Processing Systems 29*, edited by D. D. Lee, M. Sugiyama, U. V. Luxburg, I. Guyon, and R. Garnett, 1234–42. Curran Associates, Inc. http://papers.nips.cc/paper/6593-a-state-space-model-of-cross-region-dynamic-connectivity-in-megeeg.pdf.

Yu, Qingbao, Erik B Erhardt, Jing Sui, Yuhui Du, Hao He, Devon Hjelm, Mustafa S Cetin, et al. 2015. "Assessing Dynamic Brain Graphs of Time-Varying Connectivity in fMRI Data: Application to Healthy Controls and Patients with Schizophrenia." *Neuroimage* 107. Elsevier: 345–55.

Yu, Qingbao, Lei Wu, David A Bridwell, Erik B Erhardt, Yuhui Du, Hao He, Jiayu Chen, et al. 2016. "Building an Eeg-fMRI Multi-Modal Brain Graph: A Concurrent Eeg-fMRI Study." *Frontiers in Human Neuroscience* 10. Frontiers: 476.

Yu, Zhe, Raquel Prado, Erin Burke, Steven C. Cramer, and Hernando Ombao. 2016. "A Hierarchical Bayesian Model for Studying the Impact of Stroke on Brain Motor Function." *Journal of the American Statistical Association* 111: 549–63.

Zalesky, Andrew, Alex Fornito, Luca Cocchi, Leonardo L Gollo, and Michael Breakspear. 2014. "Time-Resolved Resting-State Brain Networks." *Proceedings of the National Academy of Sciences* 111 (28). National Acad Sciences: 10341–6.

Zapala, Matthew A, and Nicholas J Schork. 2012. "Statistical Properties of Multivariate Distance Matrix Regression for High-Dimensional Data Analysis." *Frontiers in Genetics* 3. Frontiers Media SA.

Zhang, Daowen, and Xihong Lin. 2003. "Hypothesis Testing in Semiparametric Additive Mixed Models." *Biostatistics (Oxford)* 4 (1): 57–74.

Zhang, Tingting, Minh Pham, Jianhui Sun, Guofen Yan, Huazhang Li, Yinge Sun, Marlen Z Gonzalez, and James A Coan. 2017. "A Low-Rank Multivariate General Linear Model for Multi-Subject fMRI Data and a Non-Convex Optimization Algorithm for Brain Response Comparison." *NeuroImage*. Elsevier.

Zhang, Ying, Alessandro Bertolino, Leonardo Fazio, Giuseppe Blasi, Antonio Rampino, Raffaella Romano, Mei-Ling T Lee, et al. 2007. "Polymorphisms in Human Dopamine D2 Receptor Gene Affect Gene Expression, Splicing, and Neuronal Activity During Working Memory." *Proceedings of the National Academy of Sciences* 104 (51). National Acad Sciences: 20552–7.

Zhou, Hua, Lexin Li, and Hongtu Zhu. 2013. "Tensor Regression with Applications in Neuroimaging Data Analysis." *Journal of the American Statistical Association* 108 (502). Taylor & Francis Group: 540–52.

Zhu, Dajiang, Tuo Zhang, Xi Jiang, Xintao Hu, Hanbo Chen, Ning Yang, Jinglei Lv, Junwei Han, Lei Guo, and Tianming Liu. 2014. "Fusing Dti and fMRI Data: A Survey of Methods and Applications." *NeuroImage* 102. Elsevier: 184–91.

Zhu, Hongtu, Yasheng Chen, Joseph G Ibrahim, Yimei Li, Colin Hall, and Weili Lin. 2009. "Intrinsic Regression Models for Positive-Definite Matrices with Applications to Diffusion Tensor Imaging." *Journal of the American Statistical Association* 104 (487). Taylor & Francis: 1203–12.

Zhu, Hongtu, Linglong Kong, Runze Li, Martin Styner, Guido Gerig, Weili Lin, and John H Gilmore. 2011. "FADTTS: Functional Analysis of Diffusion Tensor Tract Statistics." *NeuroImage* 56 (3). Elsevier: 1412–25.