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Edoardo Airoldi's articles on arXiv

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[1] arXiv:1510.00967 [pdf, other]
Title: The Proximal Robbins-Monro Method
Authors: Panos Toulis, Thibaut Horel, Edoardo M. Airoldi
Comments: 35 pages, 2 figures
Subjects: Statistics Theory (math.ST); Computation (stat.CO); Methodology (stat.ME); Machine Learning (stat.ML)

[2] arXiv:1909.00472 [pdf, other]
Title: Latent Space Modelling of Hypergraph Data
Authors: Kathryn Turnbull, Simón Lunagómez, Christopher Nemeth, Edoardo Airoldi
Comments: 44 pages, 19 figures
Subjects: Methodology (stat.ME)

[3] arXiv:1512.06469 [pdf]
Title: A Co-evolution Model of Network Structure and User Behavior in Online Social Networks: The Case of Network-Driven Content Generation
Authors: Prasanta Bhattacharya, Tuan Q. Phan, Xue Bai, Edoardo Airoldi
Subjects: Social and Information Networks (cs.SI); Physics and Society (physics.soc-ph); Applications (stat.AP)

[4] arXiv:1810.08259 [pdf, other]
Title: A systematic investigation of classical causal inference strategies under mis-specification due to network interference
Authors: Vishesh Karwa, Edoardo M. Airoldi
Subjects: Methodology (stat.ME)

[5] arXiv:1609.06245 [pdf, other]
Title: Identification and estimation of treatment and interference effects in observational studies on networks
Authors: Laura Forastiere, Edoardo M. Airoldi, Fabrizia Mealli
Subjects: Methodology (stat.ME)

[6] arXiv:1803.02876 [pdf, other]
Title: Optimizing cluster-based randomized experiments under a monotonicity assumption
Authors: Jean Pouget-Abadie, David C. Parkes, Vahab Mirrokni, Edoardo M. Airoldi
Subjects: Methodology (stat.ME)

[7] arXiv:1801.07310 [pdf, other]
Title: Propensity score methodology in the presence of network entanglement between treatments
Authors: Panos Toulis, Alexander Volfovsky, Edoardo M. Airoldi
Subjects: Statistics Theory (math.ST); Methodology (stat.ME)

[8] arXiv:1507.00803 [pdf, other]
Title: Model-assisted design of experiments in the presence of network correlated outcomes

Authors: Guillaume W. Basse, Edoardo M. Airoldi
Comments: 56 pages, 6 figures
Subjects: Methodology (stat.ME); Social and Information Networks (cs.SI); Physics and Society (physics.soc-ph); Machine Learning (stat.ML)

[9] arXiv:1705.05752 [pdf, other]
Title: Limitations of design-based causal inference and A/B testing under arbitrary and network interference
Authors: Guillaume Basse, Edoardo Airoldi
Subjects: Methodology (stat.ME); Applications (stat.AP)

[10] arXiv:1702.03578 [pdf, other]
Title: Elements of estimation theory for causal effects in the presence of network interference
Authors: Daniel L. Sussman, Edoardo M. Airoldi
Subjects: Methodology (stat.ME)

[11] arXiv:1401.4718 [pdf, ps, other]
Title: Bayesian Inference from Non-Ignorable Network Sampling Designs
Authors: Simon Lunagomez, Edoardo Airoldi
Subjects: Methodology (stat.ME)

[12] arXiv:1408.2923 [pdf, other]
Title: Asymptotic and finite-sample properties of estimators based on stochastic gradients
Authors: Panos Toulis, Edoardo M. Airoldi
Comments: Annals of Statistics, 2016, forthcoming; 71 pages, 37-page main body; 9 figures; 6 tables
Subjects: Methodology (stat.ME); Computation (stat.CO); Machine Learning (stat.ML)

[13] arXiv:1603.06045 [pdf, other]
Title: Non-standard conditionally specified models for non-ignorable missing data
Authors: Alexander M Franks, Edoardo M Airoldi, Donald B Rubin
Comments: 37 pages, 9 figures, 1 table
Subjects: Methodology (stat.ME)

[14] arXiv:1407.6092 [pdf, other]
Title: Sharp Total Variation Bounds for Finitely Exchangeable Arrays
Authors: Alexander Volfovsky, Edoardo Airoldi
Subjects: Statistics Theory (math.ST); Probability (math.PR)

[15] arXiv:1601.04083 [pdf, other]
Title: Observational studies with unknown time of treatment
Authors: Guillaume W. Basse, Alexander Volfovsky, Edoardo M. Airoldi
Subjects: Methodology (stat.ME); Applications (stat.AP)

[16] arXiv:1506.03159 [pdf, other]
Title: Copula variational inference
Authors: Dustin Tran, David M. Blei, Edoardo M. Airoldi
Comments: Appears in Neural Information Processing Systems, 2015
Subjects: Machine Learning (stat.ML); Machine Learning (cs.LG); Computation (stat.CO); Methodology (stat.ME)

[17] arXiv:1509.06459 [pdf, other]
Title: Stochastic gradient descent methods for estimation with large data sets
Authors: Dustin Tran, Panos Toulis, Edoardo M. Airoldi
Subjects: Computation (stat.CO); Methodology (stat.ME); Machine Learning (stat.ML)

[18] arXiv:1506.07925 [pdf, other]
Title: Analyzing statistical and computational tradeoffs of estimation procedures
Authors: Daniel L. Sussman, Alexander Volfovsky, Edoardo M. Airoldi
Subjects: Computation (stat.CO); Machine Learning (stat.ML)

[19] arXiv:1410.8597 [pdf, other]
Title: Consistent estimation of dynamic and multi-layer block models
Authors: Qiuyi Han, Kevin S. Xu, Edoardo M. Airoldi
Comments: To appear at ICML 2015
Journal-ref: Proceedings of the 32nd International Conference on Machine Learning (2015) 1511-1520

Subjects: Methodology (stat.ME); Social and Information Networks (cs.SI); Statistics Theory (math.ST); Physics and Society (physics.soc-ph)

[20] arXiv:0912.3648 [pdf, other]
Title: Geometric Representations of Random Hypergraphs
Authors: Simón Lunagómez, Sayan Mukherjee, Robert L. Wolpert, Edoardo M. Airoldi
Subjects: Statistics Theory (math.ST); Probability (math.PR); Machine Learning (stat.ML)

[21] arXiv:1501.01234 [pdf, other]
Title: Causal inference for ordinal outcomes
Authors: Alexander Volfovsky, Edoardo M. Airoldi, Donald B. Rubin
Subjects: Methodology (stat.ME)

[22] arXiv:1412.6734 [pdf, other]
Title: Implicit Temporal Differences
Authors: Aviv Tamar, Panos Toulis, Shie Mannor, Edoardo M. Airoldi
Subjects: Machine Learning (stat.ML); Machine Learning (cs.LG)

[23] arXiv:1012.0866 [pdf, other]
Title: Generalized Species Sampling Priors with Latent Beta reinforcements
Authors: Edoardo M. Airoldi, Thiago Costa, Federico Bassetti, Fabrizio Leisen, Michele Guindani
Comments: For correspondence purposes, Edoardo M. Airoldi's email is airoldi@fas.harvard.edu; Federico Bassetti's email is federico.bassetti@unipv.it; Michele Guindani's email is mguindani@mdanderson.org ; Fabrizo Leisen's email is fabrizio.leisen@gmail.com. To appear in the Journal of the American Statistical Association
Subjects: Statistics Theory (math.ST); Machine Learning (cs.LG); Methodology (stat.ME)

[24] arXiv:1206.4631 [pdf, other]
Title: A Poisson convolution model for characterizing topical content with word frequency and exclusivity
Authors: Edoardo M Airoldi, Jonathan M Bischof
Comments: Originally appeared in ICML2012
Subjects: Machine Learning (cs.LG); Computation and Language (cs.CL); Information Retrieval (cs.IR); Methodology (stat.ME); Machine Learning (stat.ML)

[25] arXiv:1406.5799 [pdf, other]
Title: Estimating cellular pathways from an ensemble of heterogeneous data sources
Authors: Alexander Franks, Florian Markowetz, Edoardo Airoldi
Subjects: Molecular Networks (q-bio.MN); Applications (stat.AP); Methodology (stat.ME)

[26] arXiv:1405.2566 [pdf, other]
Title: Learning modular structures from network data and node variables
Authors: Elham Azizi, James E. Galagan, Edoardo M. Airoldi
Comments: 22 pages, 6 figures, 3 tables, 3 algorithms
Subjects: Machine Learning (stat.ML); Social and Information Networks (cs.SI); Physics and Society (physics.soc-ph); Quantitative Methods (q-bio.QM); Applications (stat.AP)

[27] arXiv:1402.1888 [pdf, ps, other]
Title: A Consistent Histogram Estimator for Exchangeable Graph Models
Authors: Stanley H. Chan, Edoardo M. Airoldi
Comments: 28 pages, 5 figures
Subjects: Methodology (stat.ME)

[28] arXiv:1401.2756 [pdf, ps, other]
Title: Multi-way blockmodels for analyzing coordinated high-dimensional responses
Authors: Edoardo M. Airoldi, Xiaopei Wang, Xiaodong Lin
Comments: Published in at this http URL the Annals of Applied Statistics (this http URL) by the Institute of Mathematical Statistics (this http URL)
Journal-ref: Annals of Applied Statistics 2013, Vol. 7, No. 4, 2431-2457
Subjects: Applications (stat.AP)

[29] arXiv:1310.0423 [pdf, ps, other]
Title: Inference of Network Summary Statistics Through Network Denoising
Authors: Prakash Balachandran, Edoardo Airoldi, Eric Kolaczyk
Comments: 47 pages, 3 figures, submitted to the Annals of Statistics

Subjects: Machine Learning (stat.ML); Spectral Theory (math.SP)

[30] arXiv:1311.1731 [pdf, ps, other]
Title: Stochastic blockmodel approximation of a graphon: Theory and consistent estimation
Authors: Edoardo M Airoldi, Thiago B Costa, Stanley H Chan
Comments: 20 pages, 4 figures, 2 algorithms. Neural Information Processing Systems (NIPS), 2013
Subjects: Methodology (stat.ME); Machine Learning (cs.LG); Social and Information Networks (cs.SI); Data Analysis, Statistics and Probability (physics.data-an); Machine Learning (stat.ML)

[31] arXiv:0912.5193 [pdf, ps, other]
Title: Ranking relations using analogies in biological and information networks
Authors: Ricardo Silva, Katherine Heller, Zoubin Ghahramani, Edoardo M. Airoldi
Comments: Published in at this http URL the Annals of Applied Statistics (this http URL) by the Institute of Mathematical Statistics (this http URL)
Journal-ref: Annals of Applied Statistics 2010, Vol. 4, No. 2, 615-644
Subjects: Methodology (stat.ME); Machine Learning (cs.LG); Physics and Society (physics.soc-ph); Quantitative Methods (q-bio.QM); Applications (stat.AP)

[32] arXiv:1306.3466 [pdf, other]
Title: Sashimi plots: Quantitative visualization of RNA sequencing read alignments
Authors: Yarden Katz, Eric T. Wang, Jacob Silterra, Schraga Schwartz, Bang Wong, Jill P. Mesirov, Edoardo M. Airoldi, Christopher B. Burge
Comments: 2 figures
Subjects: Genomics (q-bio.GN)

[33] arXiv:1203.2821 [pdf, other]
Title: Graphlet decomposition of a weighted network
Authors: Hossein Azari Soufiani, Edoardo M Airoldi
Comments: 25 pages, 4 figures, 3 tables
Journal-ref: Journal of Machine Learning Research, Workshop & Conference Proceedings, vol. 22 (AISTATS), 2012
Subjects: Methodology (stat.ME); Machine Learning (cs.LG); Social and Information Networks (cs.SI); Physics and Society (physics.soc-ph)

[34] arXiv:1105.6245 [pdf, other]
Title: Confidence sets for network structure
Authors: Edoardo M. Airoldi, David S. Choi, Patrick J. Wolfe
Comments: 17 pages, 3 figures, 3 tables
Journal-ref: Statistical Analysis and Data Mining, vol. 4, pp. 461-469, 2011
Subjects: Methodology (stat.ME); Social and Information Networks (cs.SI); Physics and Society (physics.soc-ph)

[35] arXiv:1011.4644 [pdf, ps, other]
Title: Stochastic blockmodels with growing number of classes
Authors: David S. Choi, Patrick J. Wolfe, Edoardo M. Airoldi
Comments: 12 pages, 3 figures; revised version
Journal-ref: Biometrika, 99:273--284, 2012
Subjects: Statistics Theory (math.ST); Social and Information Networks (cs.SI); Methodology (stat.ME); Machine Learning (stat.ML)

[36] arXiv:0912.5410 [pdf, other]
Title: A survey of statistical network models
Authors: Anna Goldenberg, Alice X Zheng, Stephen E Fienberg, Edoardo M Airoldi
Comments: 96 pages, 14 figures, 333 references
Journal-ref: Foundations and Trends in Machine Learning, 2(2):1-117, 2009
Subjects: Methodology (stat.ME); Machine Learning (cs.LG); Physics and Society (physics.soc-ph); Molecular Networks (q-bio.MN); Machine Learning (stat.ML)

[37] arXiv:0711.2520 [pdf, other]
Title: Mixed membership analysis of genome-wide expression data
Authors: Edoardo M Airoldi, Stephen E Fienberg, Eric P Xing
Comments: 22 pages, 4 figures

Subjects: Quantitative Methods (q-bio.QM); Genomics (q-bio.GN)

[38] arXiv:0706.0294 [pdf, other]
Title: Mixed membership analysis of high-throughput interaction studies: Relational data
Authors: Edoardo M Airoldi, David M Blei, Stephen E Fienberg, Eric P Xing
Comments: 22 pages, 6 figures, 2 tables
Subjects: Molecular Networks (q-bio.MN); Quantitative Methods (q-bio.QM)

[39] arXiv:0706.2040 [pdf, other]
Title: Getting started in probabilistic graphical models
Authors: Edoardo M Airoldi
Comments: 12 pages, 1 figure
Journal-ref: Airoldi EM (2007) Getting started in probabilistic graphical models. PLoS Comput Biol 3(12): e252
Subjects: Quantitative Methods (q-bio.QM); Machine Learning (cs.LG); Physics and Society (physics.soc-ph); Methodology (stat.ME); Machine Learning (stat.ML)

[40] arXiv:0705.4485 [pdf, other]
Title: Mixed membership stochastic blockmodels
Authors: Edoardo M Airoldi, David M Blei, Stephen E Fienberg, Eric P Xing
Comments: 46 pages, 14 figures, 3 tables
Journal-ref: Journal of Machine Learning Research, 9, 1981-2014.
Subjects: Methodology (stat.ME); Machine Learning (cs.LG); Statistics Theory (math.ST); Physics and Society (physics.soc-ph); Machine Learning (stat.ML)

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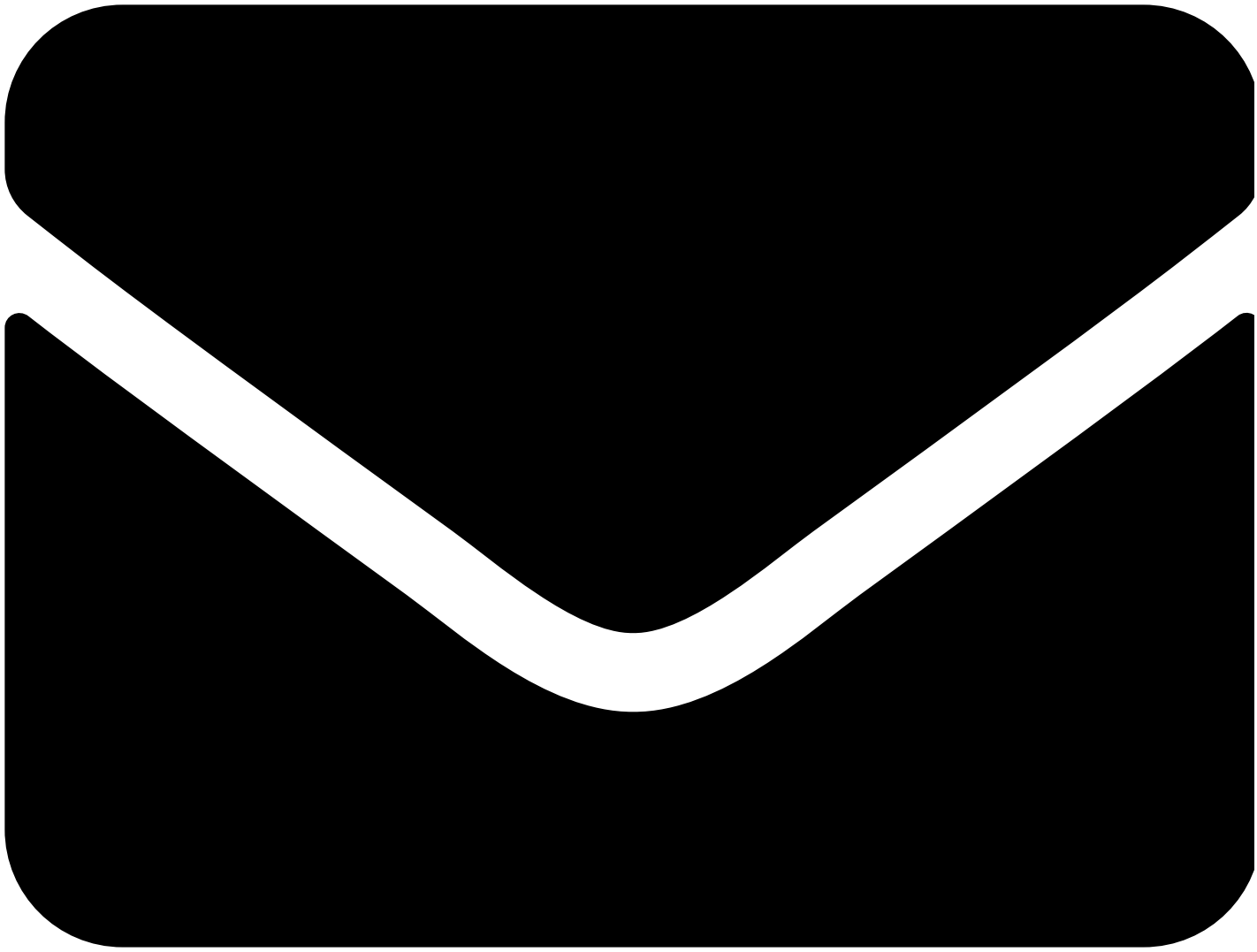

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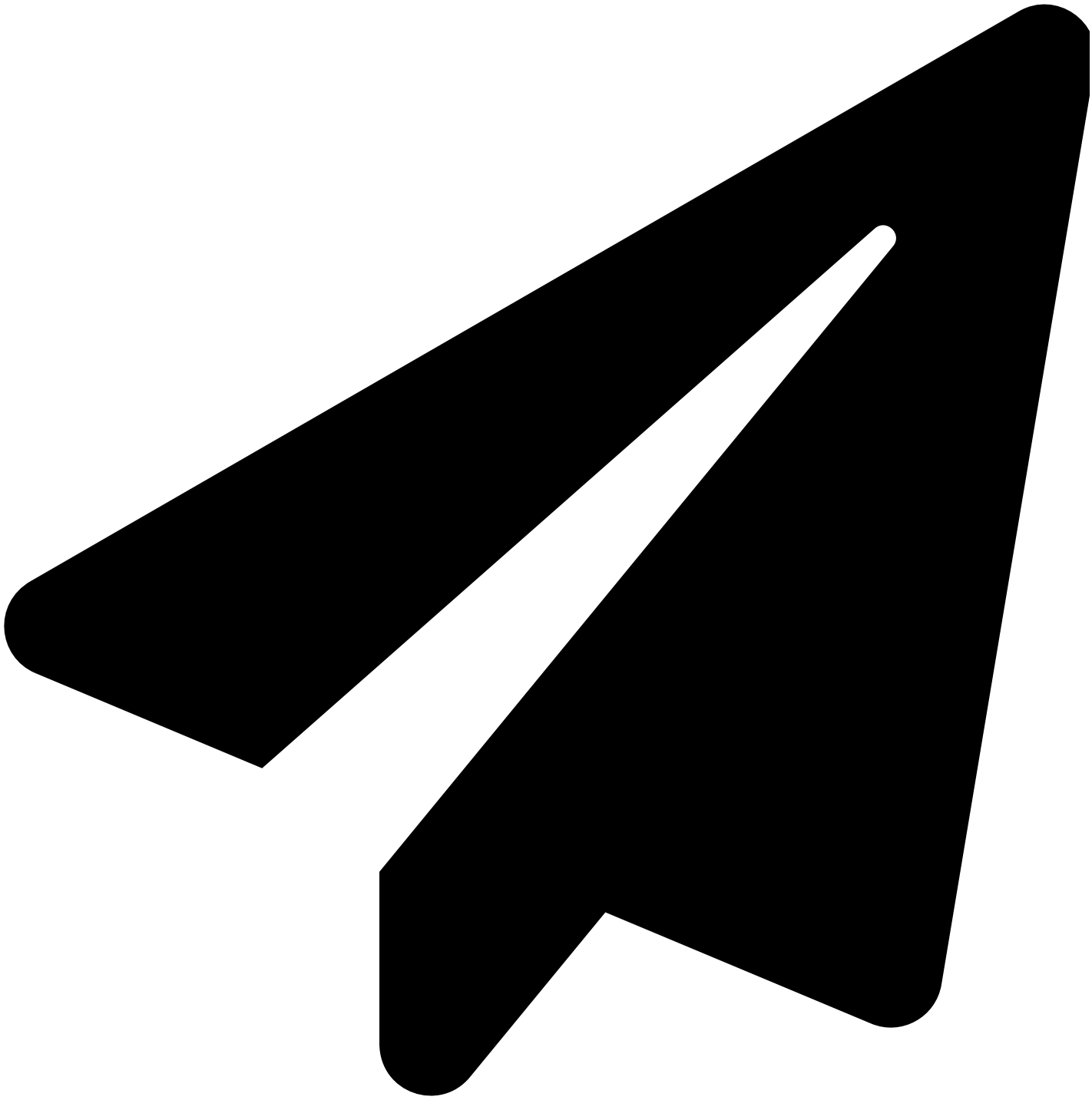

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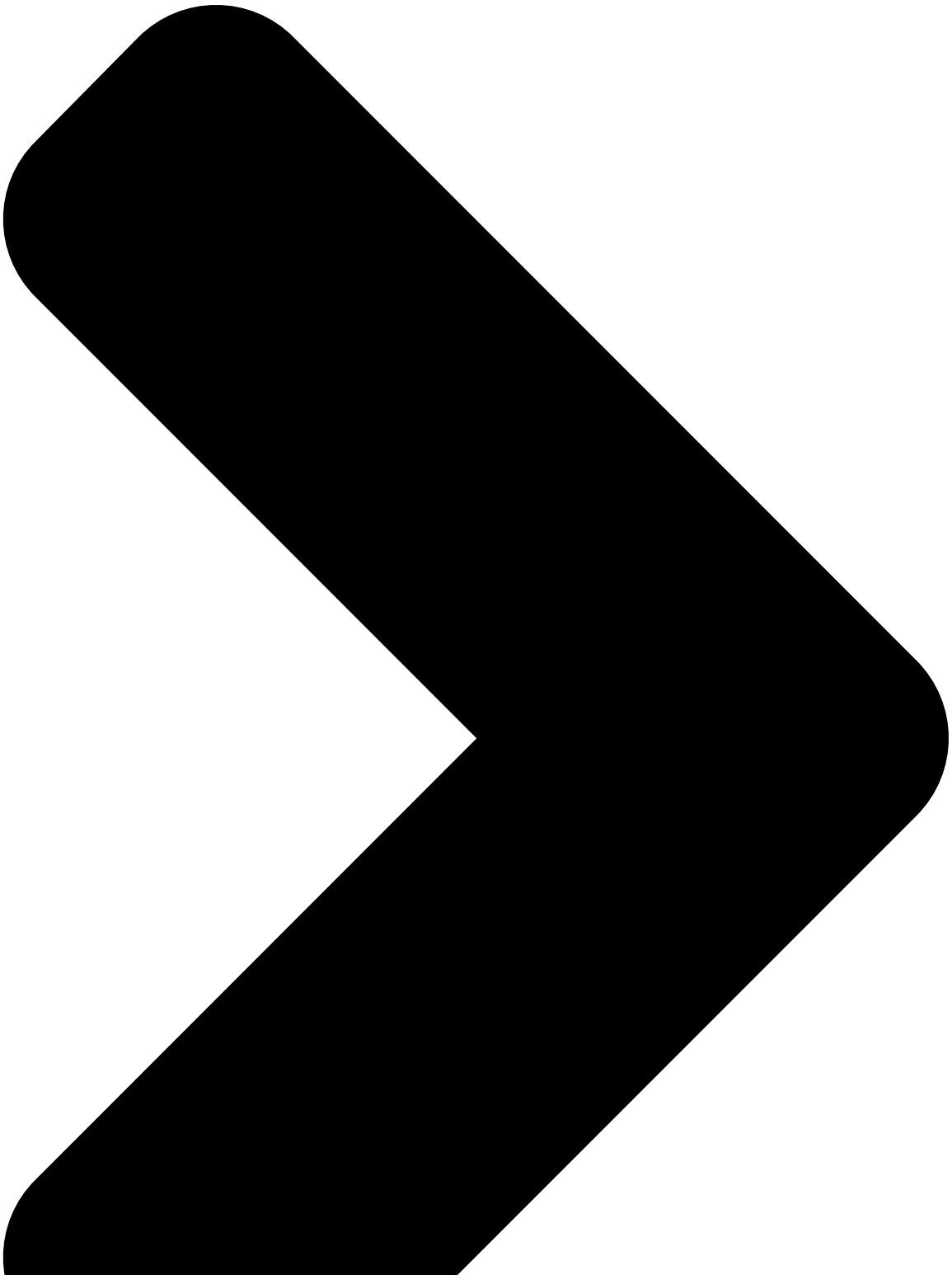

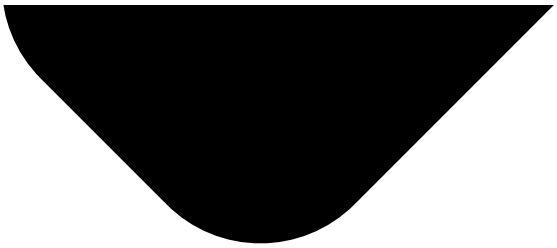

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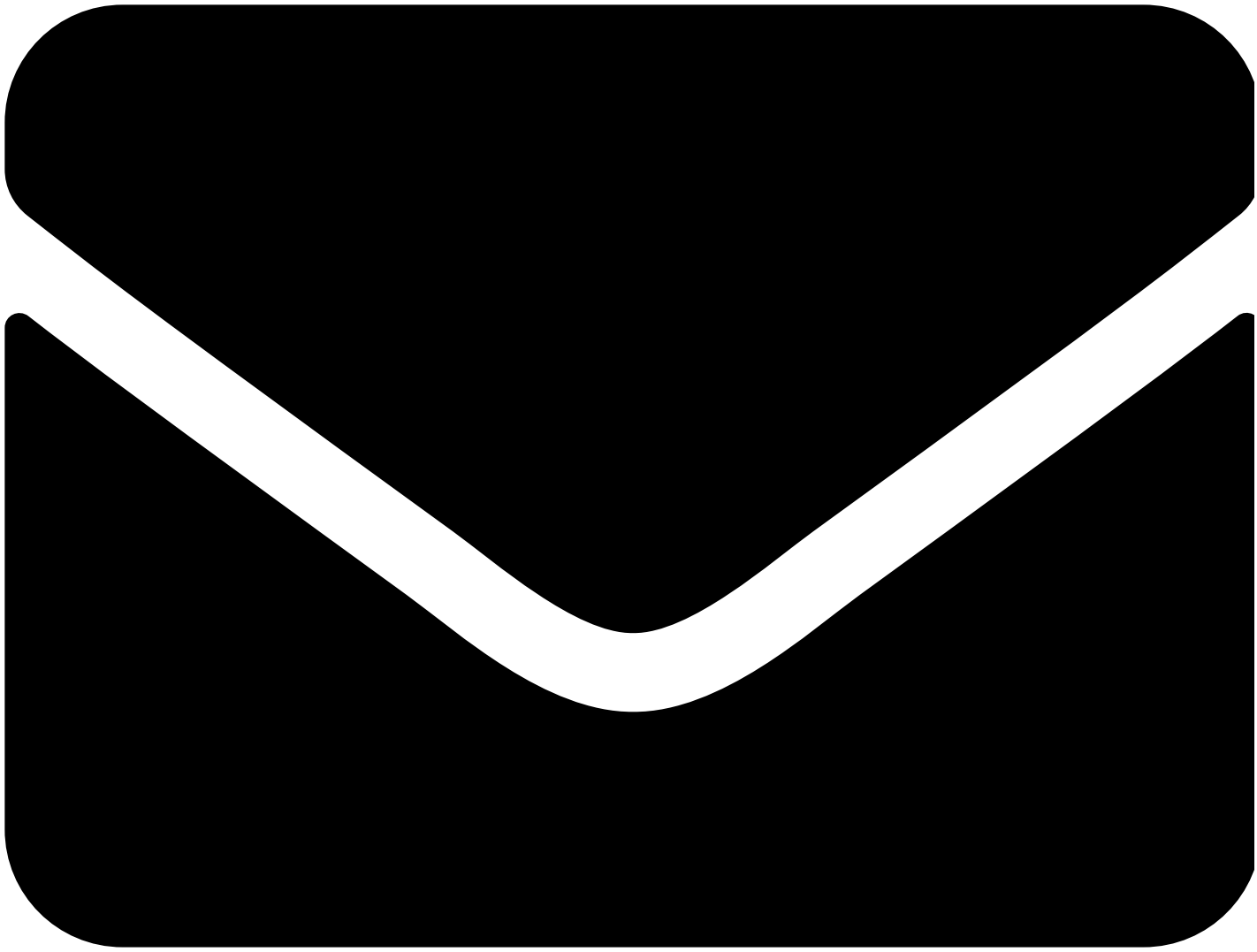

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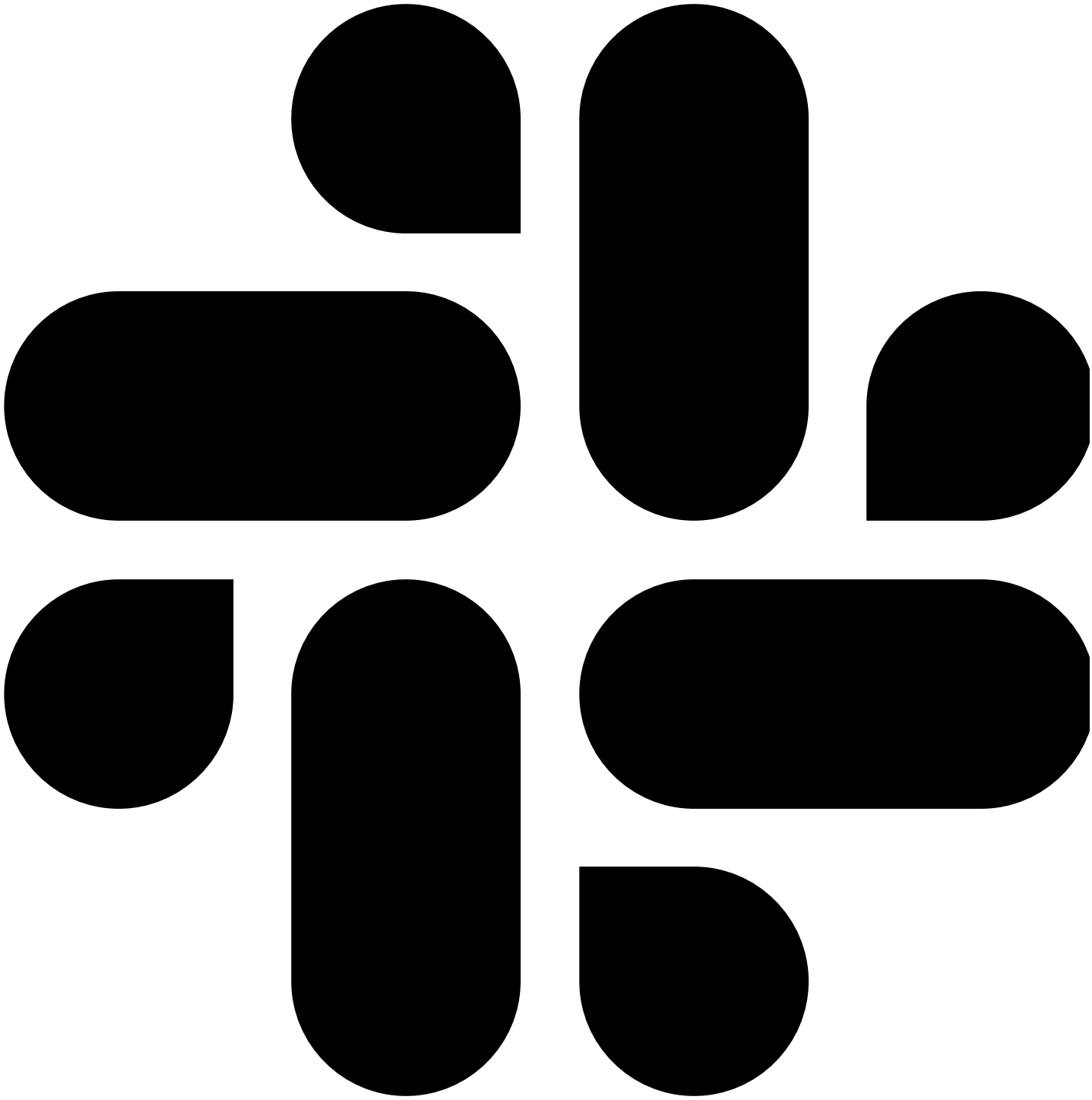

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