

Sloan Privacy Bibliography

John Abowd, Ian Schmutte, William Sexton, Lars Vilhuber

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Key References

Background

- 13 U.S. Code (1954). *USC: Title 13 - Census Act*. URL: https://www.law.cornell.edu/uscode/pdf/lii_usc_TI_13.pdf.
- 44 U.S. Code (2002). *Confidential Information Protection and Statistical Efficiency Act*. Pub. L. 107-347, title V, Dec. 17, 2002, 116 Stat. 2962 (44 U.S.C. 3501 note). URL: http://www.law.cornell.edu/topn/confidential_information_protection_and_statistical_efficiency_act_of_2002.
- Abowd, John M. and Ian M. Schmutte (2019). “An Economic Analysis of Privacy Protection and Statistical Accuracy as Social Choices”. In: *American Economic Review* 109.1, pp. 171–202. DOI: 10.1257/aer.20170627.
- Dwork, Cynthia and Aaron Roth (2014). “The Algorithmic Foundations of Differential Privacy”. In: *Foundations and Trends in Theoretical Computer Science* 9.3-4, pp. 211–407. ISSN: 1551-305X. DOI: 10.1561/0400000042. URL: <http://www.nowpublishers.com/articles/foundations-and-trends-in-theoretical-computer-science/TCS-042>.
- Harvard Data Privacy Lab (2018). *Harvard Data Privacy Lab Homepage*. Accessed: 2018-03-17. URL: <https://dataprivacylab.org/>.
- Harvard University Privacy Tools Project (2019). *Homepage*. Accessed: 2019-04-01. URL: <https://privacymatters.seas.harvard.edu/>.
- Heffetz, Ori and Katrina Ligett (2014). “Privacy and data-based research”. In: *Journal of Economic Perspectives* 28.2. Spring, pp. 75–98. DOI: 10.1257/jep.28.2.75. URL: <https://www.aeaweb.org/articles?id=10.1257/jep.28.2.75>.

- H.R.4174 (2018). *Confidential Information Protection and Statistical Efficiency Act*. part of the Foundations for Evidence-Based Policymaking Act of 2018. URL: <https://www.congress.gov/bill/115th-congress/house-bill/4174>.
- Jones, Christa (2017). *Nonconfidential Memorandum on Census Bureau Privacy Breaches*. Memorandum to file. public document in replication archive 10.5281/zenodo.1208758. URL: <http://doi.org/10.5281/zenodo.1345775>.
- Nissim, Kobbi, Thomas Steinke, Alexandra Wood, Micah Altman, Aaron Bembenek, Mark Bun, Marco Gaboardi, David R. O'Brien, and Salil Vadhan (2018). "Differential Privacy: A Primer for a Non-Technical Audience". In: *Privacy Law Scholars Conference 2017*. URL: https://openscholar.mit.edu/sites/default/files/dept/files/nissim_et_al_-differential_privacy_primer_for_non-technical_audiences_1.pdf.
- Wood, Alexandra, Micah Altman, Aaron Bembenek, Mark Bun, Marco Gaboardi, James Honaker, Kobbi Nissim, David R. O'Brien, Thomas Steinke, and Salil Vadhan (2018). "Differential Privacy: A Primer for a Non-Technical Audience". In: *Vanderbilt Journal of Entertainment and Technology Law* 21.1. URL: <http://www.jetlaw.org/journal-archives/volume-21/volume-21-issue-1/differential-privacy-a-primer-for-a-non-technical-audience/> (visited on 04/23/2019).

Formal Privacy

- Cummings, Rachel, Federico Echenique, and Adam Wierman (2014). "The Empirical Implications of Privacy-Aware Choice". In: *CoRR* abs/1401.0336. URL: <http://arxiv.org/abs/1401.0336>.
- Dinur, Irit and Kobbi Nissim (2003). "Revealing information while preserving privacy". In: *Proceedings of the Twenty-second ACM SIGMOD-SIGACT-SIGART Symposium on Principles of Database Systems*. PODS '03. San Diego, California: ACM, pp. 202–210. ISBN: 1-58113-670-6. DOI: 10.1145/773153.773173. URL: <http://doi.acm.org/10.1145/773153.773173>.
- Duchi, John C., Michael I. Jordan, and Martin J. Wainwright (2013). "Local Privacy and Statistical Minimax Rates". In: *Proceedings of the 2013 IEEE 54th Annual Symposium on Foundations of Computer Science*. FOCS '13. Washington, DC, USA: IEEE Computer Society, pp. 429–438. ISBN: 978-

- 0-7695-5135-7. DOI: 10.1109/FOCS.2013.53. URL: <http://dx.doi.org/10.1109/FOCS.2013.53>.
- Dwork, Cynthia, Frank McSherry, Kobbi Nissim, and Adam Smith (2006b). “Calibrating Noise to Sensitivity in Private Data Analysis”. In: *Proceedings of the Third conference on Theory of Cryptography*. TCC06. DOI:10.1007/11681878_14. New York, NY: Springer-Verlag, pp. 265–284. ISBN: 978-3-540-32731-8. DOI: 10.1007/11681878_14. URL: https://link.springer.com/chapter/10.1007%2F11681878_14.
- Gupta, Anupam, Aaron Roth, and Jonathan Ullman (2012a). “Iterative constructions and private data release”. In: *Proceedings of the 9th International Conference on Theory of Cryptography*. TCC12. Sicily, Italy: Springer-Verlag, pp. 339–356. ISBN: 978-3-642-28913-2. DOI: 10.1007/978-3-642-28914-9_19. URL: https://link.springer.com/chapter/10.1007%2F978-3-642-28914-9_19.
- Hardt, Moritz, Katrina Ligett, and Frank McSherry (2012). “A Simple and Practical Algorithm for Differentially Private Data Release.” In: *Advances in Neural Information Processing Systems 25*. Ed. by F. Pereira, C.J.C. Burges, L. Bottou, and K.Q. Weinberger. Curran Associates, Inc., pp. 2339–2347. URL: <http://papers.nips.cc/paper/4548-a-simple-and-practical-algorithm-for-differentially-private-data-release.pdf>.
- Hardt, Moritz and Guy N. Rothblum (2010). “A Multiplicative Weights Mechanism for Privacy-Preserving Data Analysis”. In: *2010 IEEE 51st Annual Symposium on Foundations of Computer Science*, pp. 61–70. ISSN: 0272-5428. DOI: 10.1109/FOCS.2010.85. URL: <https://ieeexplore.ieee.org/document/5670948>.
- He, Xi, Ashwin Machanavajjhala, and Bolin Ding (2014). “Blowfish privacy: tuning privacy-utility trade-offs using policies”. In: *Proceedings of the ACM SIGMOD International Conference on Management of Data*. Association for Computing Machinery, pp. 1447–1458. ISBN: 9781450323765. DOI: 10.1145/2588555.2588581. URL: <https://dl.acm.org/citation.cfm?doid=2588555.2588581>.
- Kasiviswanathan, Shiva P and Adam Smith (2014). “On the ‘Semantics’ of Differential Privacy: A Bayesian Formulation”. In: *Journal of Privacy and Confidentiality* 6.1, p. 1. DOI: 10.29012/jpc.v6i1.634. URL: <https://journalprivacyconfidentiality.org/index.php/jpc/article/view/634>.

- Li, Chao, Gerome Miklau, Michael Hay, Andrew McGregor, and Vibhor Rastogi (2015). “The matrix mechanism: optimizing linear counting queries under differential privacy”. In: *The VLDB Journal* 24.6, pp. 757–781. ISSN: 0949-877X. DOI: 10.1007/s00778-015-0398-x. URL: <http://dx.doi.org/10.1007/s00778-015-0398-x>.
- Machanavajjhala, Ashwin, Daniel Kifer, Johannes Gehrke, and Muthuramakrishnan Venkitasubramaniam (2007). “L-diversity: privacy beyond k-anonymity”. In: *ACM Transactions on Knowledge Discovery from Data* 1.1. ISSN: 1556-4681. DOI: 10.1145/1217299.1217302. URL: <http://doi.acm.org/10.1145/1217299.1217302>.
- Nissim, Kobbi, Claudio Orlandi, and Rann Smorodinsky (2012a). “Privacy-aware mechanism design”. In: *Proceedings of the 13th ACM Conference on Electronic Commerce*. EC ’12. Valencia, Spain: ACM, pp. 774–789. ISBN: 978-1-4503-1415-2. DOI: 10.1145/2229012.2229073. URL: <http://doi.acm.org/10.1145/2229012.2229073>.
- Sweeney, L (2002). “Achieving k-anonymity privacy protection using generalization and suppression”. In: *International Journal on Uncertainty, Fuzziness and Knowledge-based Systems* 10.5, pp. 571–588. DOI: 10.1142/s021848850200165x.

Economics of Privacy

- Campbell, James, Avi Goldfarb, and Catherine Tucker (2015). “Privacy Regulation and Market Structure”. In: *Journal of Economics & Management Strategy* 24.1, pp. 47–73. DOI: 10.1111/jems.12079. eprint: <https://onlinelibrary.wiley.com/doi/pdf/10.1111/jems.12079>. URL: <https://onlinelibrary.wiley.com/doi/abs/10.1111/jems.12079>.
- Hirshleifer, Jack (1980). “Privacy: its origin, function, and future”. In: *The Journal of Legal Studies*, pp. 649–664. DOI: 10.1086/467659. URL: <https://www.journals.uchicago.edu/doi/abs/10.1086/467659?journalCode=jls>.
- Hsu, Justin, Marco Gaboardi, Andreas Haeberlen, Sanjeev Khanna, Arjun Narayan, Benjamin C. Pierce, and Aaron Roth (2014). “Differential Privacy: An Economic Method for Choosing Epsilon”. In: *2014 IEEE 27th Computer Security Foundations Symposium*, pp. 398–410. ISSN: 1063-6900. DOI: 10.1109/CSF.2014.35. URL: <https://ieeexplore.ieee.org/document/6957125>.

- Jin, Ginger Zhe (2018). *Artificial Intelligence and Consumer Privacy*. Working Paper 24253. National Bureau of Economic Research. DOI: 10.3386/w24253. URL: <http://www.nber.org/papers/w24253>.
- Ohm, Paul (2010). “Broken promises of privacy: responding to the surprising failure of anonymization”. In: *UCLA Law Review* 57, p. 1701.
- Posner, Richard A. (1981). “The economics of privacy”. In: *The American economic review*, pp. 405–409.
- Stigler, George J. (1980). “An introduction to privacy in economics and politics”. In: *Journal of Legal Studies* 9.4, pp. 623–644. ISSN: 0047-2530. DOI: 10.2307/724174.

Official Statistics

- Childs, Jennifer Hunter, Ryan King, and Aleia Fobia (2015). “Confidence in U.S. federal statistical agencies”. In: *Survey Practice* 8.5. ISSN: 2168-0094. DOI: 10.29115/sp-2015-0024. URL: <https://www.surveypartice.org/article/2833-confidence-in-u-s-federal-statistical-agencies>.
- Haney, Samuel, Ashwin Machanavajjhala, John M. Abowd, Matthew Graham, Mark Kutzbach, and Lars Vilhuber (2017). “Utility Cost of Formal Privacy for Releasing National Employer-Employee Statistics”. In: *Proceedings of the 2017 International Conference on Management of Data*. Vol. forthcoming. SIGMOD ’17. ACM. DOI: 10.1145/3035918.3035940. URL: <http://dx.doi.org/10.1145/3035918.3035940>.
- Holan, Scott H., Daniell Toth, Marco A. R. Ferreira, and Alan F. Karr (2010). “Bayesian Multiscale Multiple Imputation With Implications for Data Confidentiality”. In: *Journal of the American Statistical Association* 105.490, pp. 564–577. ISSN: 0162-1459. DOI: 10.1198/jasa.2009.ap08629. URL: <http://www.tandfonline.com/doi/abs/10.1198/jasa.2009.ap08629>.
- Manski, Charles F. (2015). “Communicating Uncertainty in Official Economic Statistics: An Appraisal Fifty Years after Morgenstern”. In: *Journal of Economic Literature* 53.3, pp. 631–53. DOI: 10.1257/jel.53.3.631. URL: <https://www.aeaweb.org/articles?id=10.1257/jel.53.3.631>.
- National Academies of Sciences, Engineering, and Medicine (2017a). *Innovations in Federal Statistics: Combining Data Sources While Protecting*

- Privacy*. Committee on National Statistics. Washington, DC: National Academies Press. ISBN: 978-0-309-45428-5. DOI: doi:10.17226/24652. URL: <https://www.nap.edu/catalog/24652/innovations-in-federal-statistics-combining-data-sources-while-protecting-privacy>.
- Prewitt, Kenneth (2011). “Why It Matters to Distinguish Between Privacy & Confidentiality”. In: *Journal of Privacy and Confidentiality* 3.2, pp. 41–47. DOI: 10.29012/jpc.v3i2.600. URL: <https://journalprivacyconfidentiality.org/index.php/jpc/article/view/600>.
- Schmutte, Ian M. and Lars Vilhuber, eds. (2017). *Proceedings from the 2016 NSF-Sloan Workshop on Practical Privacy*. Labor Dynamics Institute. Cornell University. DOI: N/A. URL: <https://digitalcommons.ilr.cornell.edu/ldi/33/>.

Statistical Disclosure Limitation

- Abowd, John M. and Ian M. Schmutte (2015a). “Economic analysis and statistical disclosure limitation”. In: *Brookings Papers on Economic Activity*. Spring, pp. 221–267. DOI: 10.1353/eca.2016.0004.
- Anderson, Margo and William Seltzer (2007). “Challenges to the confidentiality of US federal statistics, 1910–1965”. In: *Journal of Official Statistics* 23.1, p. 1. URL: <https://www.scb.se/contentassets/ff271eeeca694f47ae99b942de61df83-challenges-to-the-confidentiality-of-u.s.-federal-statistics-1910-1965.pdf>.
- Dalenius, Tore (1977). “Towards a methodology for statistical disclosure control”. In: *Statistik Tidsskrift* 15, pp. 429–444. DOI: 10.1145/320613.320616. URL: <https://dl.acm.org/citation.cfm?doid=320613.320616>.
- Duncan, George and Diane Lambert (1986). “Disclosure-limited data dissemination”. In: *Journal of the American Statistical Association* 81.393, pp. 10–18. DOI: 10.1080/01621459.1986.10478229. URL: <https://www.tandfonline.com/doi/abs/10.1080/01621459.1986.10478229>.
- Fellegi, I. P. (1972). “On the question of statistical confidentiality”. English. In: *Journal of the American Statistical Association* 67.337, pp. 7–18. ISSN: 0162-1459. DOI: 10.2307/2284695. URL: <https://amstat.tandfonline.com/doi/abs/10.1080/01621459.1972.10481199#XFuE8VxKg2w>.

- Garfinkel, Simson (2015). *De-Identification of Personal Information*. Internal Report 8053. National Institute of Standards and Technology. DOI: 10.6028/nist.ir.8053. URL: http://costic1206.uvigo.es/sites/default/files/Documents_of_Interest/NISTIR%208053.pdf.
- Harris-Kojetin, Brian A. et al. (2005). *Statistical Policy Working Paper 22: Report on Statistical Disclosure Limitation Methodology*. Research Report. U.S. Federal Committee on Statistical Methodology. URL: <https://nces.ed.gov/FCSM/pdf/spwp22.pdf>.
- Kinney, Satkartar K., Jerome P. Reiter, Arnold P. Reznek, Javier Miranda, Ron S. Jarmin, and John M. Abowd (2011). “Towards Unrestricted Public Use Business Microdata: The Synthetic Longitudinal Business Database”. In: *International Statistical Review* 79.3, pp. 362–384. ISSN: 1751-5823. DOI: 10.1111/j.1751-5823.2011.00153.x. URL: <http://dx.doi.org/10.1111/j.1751-5823.2011.00153.x>.

Value of Privacy

- Couper, Mick P, Eleanor Singer, Frederick G Conrad, and Robert M Groves (2008). “Risk of disclosure, perceptions of risk, and concerns about privacy and confidentiality as factors in survey participation”. In: *Journal of Official Statistics* 24.2, p. 255. URL: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3096944/>.
- Cummings, Rachel, Katrina Ligett, Kobbi Nissim, Aaron Roth, and Zhiwei Steven Wu (2016). “Adaptive Learning with Robust Generalization Guarantees”. In: *CoRR* abs/1602.07726. URL: <http://arxiv.org/abs/1602.07726>.
- Dwork, Cynthia, Vitaly Feldman, Moritz Hardt, Toni Pitassi, Omer Reingold, and Aaron Roth (2015). “Generalization in Adaptive Data Analysis and Holdout Reuse”. In: *Advances in Neural Information Processing Systems 28*. Ed. by C. Cortes, N. D. Lawrence, D. D. Lee, M. Sugiyama, and R. Garnett, pp. 2341–2349. URL: <http://papers.nips.cc/paper/5993-generalization-in-adaptive-data-analysis-and-holdout-reuse.pdf>.
- Ghosh, Arpita and Aaron Roth (2015). “Selling privacy at auction”. In: *Games and Economic Behavior* 91, pp. 334–346. DOI: 10.1016/j.geb.2013.06.013. URL: <https://www.sciencedirect.com/science/article/pii/S0899825613000961>.

- Goldfarb, Avi and Catherine Tucker (2012). “Shifts in Privacy Concerns”. In: *American Economic Review* 102.3, pp. 349–53. DOI: 10.1257/aer.102.3.349. URL: <http://www.aeaweb.org/articles?id=10.1257/aer.102.3.349>.
- Goroff, Daniel L. (2015). “Balancing privacy versus accuracy in research protocols”. In: *Science* 347.6221, pp. 479–480. DOI: 10.1126/science.aaa3483. eprint: <http://www.sciencemag.org/content/347/6221/479.full.pdf>. URL: <http://www.ncbi.nlm.nih.gov/pubmed/25635075> <http://www.sciencemag.org/content/347/6221/479.full.pdf> <http://www.sciencemag.org/content/347/6221/479.summary>.
- Li, Chao, Daniel Yang Li, Gerome Miklau, and D A N Suciu (2014). “A Theory of Pricing Private Data”. In: *ACM Transactions on Database Systems* 39.4. Pages 34:1–34:27, 34:1–34:27. ISSN: 0362-5915. DOI: 10.1145/2448496.2448502. arXiv: 1208.5258. URL: <https://dl.acm.org/citation.cfm?doid=2448496.2448502>.
- Nissim, Kobbi, Salil Vadhan, and David Xiao (2014). “Redrawing the Boundaries on Purchasing Data from Privacy-sensitive Individuals”. In: *Proceedings of the 5th Conference on Innovations in Theoretical Computer Science*, pp. 411–422. DOI: 10.1145/2554797.2554835. arXiv: 1401.4092. URL: <http://doi.acm.org/10.1145/2554797.2554835>.

Value of Data

- Bergemann, Dirk, Alessandro Bonatti, and Alex Smolin (2018). “The Design and Price of Information”. In: *American Economic Review* 108.1, pp. 1–48. DOI: 10.1257/aer.20161079. URL: <http://www.aeaweb.org/articles?id=10.1257/aer.20161079>.
- Card, David, Alexandre Mas, Enrico Moretti, and Emmanuel Saez (2012). “Inequality at work: the effect of peer salaries on job satisfaction”. In: *American Economic Review* 102.6, pp. 2981–3003. DOI: 10.1257/aer.102.6.2981. URL: <http://www.aeaweb.org/articles?id=10.1257/aer.102.6.2981>.
- Perez-Truglia, Ricardo (2016). “The effects of income transparency on well-being: evidence from a natural experiment”. In: *SSRN*. DOI: 10.2139/

- ssrn . 2657808. URL: https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2657808.
- Pomatto, Luciano, Philipp Strack, and Omer Tamuz (2018). *The Cost of Information*. Tech. rep. arXiv.
- Spencer, Bruce D. (1985). “Optimal Data Quality”. In: *Journal of the American Statistical Association* 80.391, pp. 564–573. DOI: 10.1080/01621459.1985.10478155. eprint: <http://www.tandfonline.com/doi/pdf/10.1080/01621459.1985.10478155>. URL: <http://www.tandfonline.com/doi/abs/10.1080/01621459.1985.10478155>.
- Spencer, Bruce David and Zachary H. Seeskin (2015). “Effects of Census Accuracy on Apportionment of Congress and Allocations of Federal Funds”. English (US). In: *JSM Proceedings, Government Statistics Section*, pp. 3061–3075. URL: <https://www.ipr.northwestern.edu/publications/papers/2015/ipr-wp-15-05.html>.
- Taylor, Curtis R. (2004). “Consumer privacy and the market for customer information”. English. In: *The RAND Journal of Economics* 35.4, pp. 631–650. ISSN: 0741-6261. DOI: 10.2307/1593765. URL: <http://doi.wiley.com/10.2307/1593765>.
- Varian, Hal R. (1998). *Markets for Information Goods*. mimeo. UC Berkeley School of Information, pp. 1–19. URL: <http://people.ischool.berkeley.edu/%7B~%7Dhal/Papers/japan/index.html>.

Additional Reading

Formal Privacy

- Bhaskara, Aditya, Daniel Dadush, Ravishankar Krishnaswamy, and Kunal Talwar (2012). “Unconditional Differentially Private Mechanisms for Linear Queries”. In: *Proceedings of the Forty-fourth Annual ACM Symposium on Theory of Computing*. STOC ’12. New York, New York, USA: ACM, pp. 1269–1284. ISBN: 978-1-4503-1245-5. DOI: 10.1145/2213977.2214089. URL: <http://doi.acm.org/10.1145/2213977.2214089>.
- Bun, Mark and Thomas Steinke (2016). “Concentrated differential privacy: simplifications, extensions, and lower bounds”. In: *CoRR* abs/1605.02065. DOI: 10.1007/978-3-662-53641-4_24. URL: <http://arxiv.org/abs/1605.02065>.
- Chaudhuri, Kamalika, Claire Monteleoni, and Anand D. Sarwate (2011). “Differentially Private Empirical Risk Minimization”. In: *Journal of Machine Learning Research* 12, pp. 1069–1109. ISSN: 1532-4435. arXiv: 0912.0071. URL: <http://www.jmlr.org/papers/volume12/chaudhuri11a/chaudhuri11a.pdf>.
- Chen, Yan, Ashwin Machanavajjhala, Jerome P. Reiter, and Andres F. Barrientos (2016). “Differentially Private Regression Diagnostics”. In: *2016 IEEE International Conference on Data Mining*, pp. 81–90. DOI: 10.1109/icdm.2016.0019. URL: <https://ieeexplore.ieee.org/abstract/document/7837832>.
- Chen, Yiling, Stephen Chong, Ian A. Kash, Tal Moran, and Salil Vadhan (2016). “Truthful Mechanisms for Agents That Value Privacy”. In: *ACM Trans. Econ. Comput.* 4.3, 13:1–13:30. ISSN: 2167-8375. DOI: 10.1145/2892555. URL: <http://doi.acm.org/10.1145/2892555>.
- Cormode, G., C. Procopiuc, D. Srivastava, E. Shen, and T. Yu (2012). “Differentially Private Spatial Decompositions”. In: *2012 IEEE 28th International Conference on Data Engineering*, pp. 20–31. DOI: 10.1109/ICDE.2012.16.
- Cummings, Rachel, Stratis Ioannidis, and Katrina Ligett (2015). “Truthful Linear Regression”. In: *CoRR* abs/1506.03489. DOI: N/A. URL: <http://arxiv.org/abs/1506.03489>.
- Cummings, Rachel, Michael Kearns, Aaron Roth, and Zhiwei Steven Wu (2014). “Privacy and Truthful Equilibrium Selection for Aggregative Games”.

- In: *CoRR* abs/1407.7740. DOI: 10.1007/978-3-662-48995-6_21. URL: <http://arxiv.org/abs/1407.7740>.
- Cummings, Rachel, Katrina Ligett, Mallesh M. Pai, and Aaron Roth (2015). “The Strange Case of Privacy in Equilibrium Models”. In: *CoRR* abs/1508.03080. DOI: 10.1145/2940716.2940740. URL: <http://arxiv.org/abs/1508.03080>.
- Cummings, Rachel, Katrina Ligett, Jaikumar Radhakrishnan, Aaron Roth, and Zhiwei Steven Wu (2015). “Coordination Complexity: Small Information Coordinating Large Populations”. In: *CoRR* abs/1508.03735. DOI: 10.1145/2840728.2840767. URL: <http://arxiv.org/abs/1508.03735>.
- Cummings, Rachel, Katrina Ligett, Aaron Roth, Zhiwei Steven Wu, and Juba Ziani (2015). “Accuracy for Sale: Aggregating Data with a Variance Constraint”. In: *Proceedings of the 2015 Conference on Innovations in Theoretical Computer Science*. ITCS ’15. Rehovot, Israel: ACM, pp. 317–324. ISBN: 978-1-4503-3333-7. DOI: 10.1145/2688073.2688106. URL: <http://doi.acm.org/10.1145/2688073.2688106>.
- Cynthia Dwork, Adam Smith (2009). “Differential privacy for statistics: What we know and what we want to learn”. In: *Journal of Privacy and Confidentiality* 2 1.2, pp. 135–154. DOI: 10.29012/jpc.v1i2.570. URL: <http://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.206.2441>.
- Differential Privacy Team (2017). “Learning with Privacy at Scale”. In: *Apple Machine Learning Journal* 1.8. URL: <https://machinelearning.apple.com/2017/12/06/learning-with-privacy-at-scale.html>.
- Ding, Bolin, Janardhan Kulkarni, and Sergey Yekhanin (2017). “Collecting Telemetry Data Privately”. In: *Advances in Neural Information Processing Systems 30*. URL: <https://www.microsoft.com/en-us/research/publication/collecting-telemetry-data-privately/>.
- Domingo-Ferrer, Josep and Krishnamurty Muralidhar (2016). “New directions in anonymization: permutation paradigm, verifiability by subjects and intruders, transparency to users”. In: *Information Sciences* 337. ISSN: 0020-0255, pp. 11–24. DOI: <https://doi.org/10.1016/j.ins.2015.12.014>. URL: <https://www.sciencedirect.com/science/article/pii/S0020025515009032>.
- Du, Wenliang and Zhijun Zhan (2003). “Using randomized response techniques for privacy-preserving data mining”. In: *Proceedings of the Ninth ACM SIGKDD International Conference on Knowledge Discovery and Data Mining*. KDD ’03. Washington, D.C.: ACM, pp. 505–510. ISBN: 1-

- 58113-737-0. DOI: 10.1145/956750.956810. URL: <http://doi.acm.org/10.1145/956750.956810>.
- Duchi, John C., Michael I. Jordan, and Martin J. Wainwright (2014). “Privacy Aware Learning”. In: *J. ACM* 61.6, 38:1–38:57. ISSN: 0004-5411. DOI: 10.1145/2666468. URL: <http://doi.acm.org/10.1145/2666468>.
- (2016). “Minimax Optimal Procedures for Locally Private Estimation”. In: *arXiv*. DOI: 10.1080/01621459.2017.1389735. URL: <https://www.tandfonline.com/doi/abs/10.1080/01621459.2017.1389735>.
- Dwork, Cynthia. *The state of the art*. Microsoft Research Slide Presentation. URL: <http://web.mit.edu/bigdata-priv/pdf/Cynthia-Dwork.pdf>.
- (2006a). “Differential privacy”. In: *Proceedings of the International Colloquium on Automata, Languages and Programming (ICALP)*, pp. 1–12. DOI: N/A. URL: N/A.
- (2006b). “Differential privacy”. In: *Proceedings of the 33rd International Colloquium on Automata, Languages and Programming*, pp. 1–12. ISSN: 0302-9743. DOI: N/A. URL: N/A.
- (2008). “Differential privacy: a survey of results”. In: *Theory and Applications of Models of Computation*, pp. 1–19. DOI: 10.1007/978-3-540-79228-4_1. URL: https://link.springer.com/chapter/10.1007/978-3-540-79228-4_1.
- (2011). “A firm foundation for private data analysis”. In: *Communications of the ACM* 54.1, pp. 86–95. DOI: doi:10.1145/1866739.1866758. URL: <https://dl.acm.org/citation.cfm?doid=1866739.1866758>.
- Dwork, Cynthia, Frank McSherry, Kobbi Nissim, and Adam Smith (2006a). “Calibrating Noise to Sensitivity in Private Data Analysis”. In: *Tcc*. DOI:10.1007/11681878_14, pp. 265–284. DOI: 10.29012/jpc.v7i3.405. URL: <https://journalprivacyconfidentiality.org/index.php/jpc/article/view/405>.
- (2017). “Calibrating Noise to Sensitivity in Private Data Analysis”. In: *Journal of Privacy and Confidentiality* 7.3, pp. 17–51. DOI: 10.29012/jpc.v7i3.405. URL: <https://doi.org/10.29012/jpc.v7i3.405>.
- Dwork, Cynthia, Frank McSherry, and Kunal Talwar (2007). “The price of privacy and the limits of LP decoding”. In: *Proceedings of the thirty-ninth annual ACM symposium on Theory of computing STOC ’07*. ACM Digital Library, pp. 85–94. DOI: 10.1145/1250790.1250804.
- Dwork, Cynthia and Moni Naor (2010). “On the difficulties of disclosure prevention in statistical databases or the case for differential privacy”. In: *Journal of Privacy and Confidentiality* 2.1, pp. 93–107. DOI: 10.29012/

- jpc.v2i1.585. URL: <https://journalprivacyconfidentiality.org/index.php/jpc/article/view/585>.
- Dwork, Cynthia, Moni Naor, Toniann Pitassi, and Guy N Rothblum (2010). “Differential privacy under continual observation”. In: *Stoc*, pp. 715–724. ISSN: 0737-8017. DOI: 10.1145/1806689.1806787. URL: <https://dl.acm.org/citation.cfm?doid=1806689.1806787>.
- Dwork, Cynthia, Moni Naor, Omer Reingold, Guy N Rothblum, and Salil Vadhan (2009). “On the complexity of differentially private data release: efficient algorithms and hardness results”. In: *Proceedings of the 41st annual ACM symposium on Symposium on theory of computing - STOC '09*, p. 381. ISSN: 0737-8017. DOI: 10.1145/1536414.1536467. URL: <https://dl.acm.org/citation.cfm?doid=1536414.1536467>.
- Dwork, Cynthia and Kobbi Nissim (2004a). “Privacy-preserving datamining on vertically partitioned databases”. In: *24th Annual International Cryptology Conference (CRYPTO 2004)*. Vol. 3152. Lecture Notes in Computer Science. Santa Barbara, California, USA: Springer Verlag, pp. 528–544. DOI: N/A. URL: <http://research.microsoft.com/apps/pubs/default.aspx?id=64353>.
- (2004b). “Privacy-preserving datamining on vertically partitioned databases”. In: *Proceedings of Advances in Cryptology (CRYPTO) 3152*, pp. 528–544. ISSN: 0302-9743. DOI: N/A. URL: <http://research.microsoft.com/apps/pubs/default.aspx?id=64353>.
- Dwork, Cynthia and Guy N. Rothblum (2016). “Concentrated differential privacy”. In: *CoRR* abs/1603.01887. DOI: N/A. URL: <http://arxiv.org/abs/1603.01887>.
- Dwork, Cynthia, Guy N. Rothblum, and Salil Vadhan (2010). “Boosting and Differential Privacy”. In: *2010 IEEE 51st Annual Symposium on Foundations of Computer Science*, pp. 51–60. DOI: 10.1109/FOCS.2010.12. URL: <https://ieeexplore.ieee.org/document/5670947>.
- Dwork, Cynthia, Adam Smith, Thomas Steinke, Jonathan Ullman, and Salil Vadhan (2015). “Robust traceability from trace amounts”. In: *Proceedings of the 2015 IEEE 56th Annual Symposium on Foundations of Computer Science (FOCS '15)*. ACM Digital Library, pp. 650–669. DOI: 10.1109/FOCS.2015.46. URL: <https://ieeexplore.ieee.org/document/7354420>.
- Erlingsson, Úlfar, Vasyl Pihur, and Aleksandra Korolova (2014). “RAPPOR: Randomized Aggregatable Privacy-Preserving Ordinal Response”. In: *Proceedings of the 2014 ACM SIGSAC Conference on Computer and Com-*

- munications Security - CCS '14*, pp. 1054–1067. DOI: 10.1145/2660267.2660348. arXiv: 1407.6981. URL: <http://dl.acm.org/citation.cfm?id=2660267.2660348>.
- Esfimievski, Alexandre, Johannes Gehrke, and Ramakrishnan Srikant (2003). “Limiting privacy breaches in privacy preserving data mining”. In: *SIGMOD Principles of Database Systems PODS '03*. ACM Digital Library, pp. 211–222. DOI: 10.1145/773153.773174.
- Fang, Chengfang and Ee-Chien Chang (2012). “Adaptive Differentially Private Histogram of Low-Dimensional Data”. In: *Privacy Enhancing Technologies*. Ed. by Simone Fischer-Hübner and Matthew Wright. Berlin, Heidelberg: Springer Berlin Heidelberg, pp. 160–179. ISBN: 978-3-642-31680-7.
- Fanti, Giulia C., Vasyl Pihur, and Úlfar Erlingsson (2015). “Building a RAP-POR with the unknown: privacy-preserving learning of associations and data dictionaries”. In: *CoRR* abs/1503.01214. DOI: 10.1515/popets-2016-0015. URL: <http://arxiv.org/abs/1503.01214>.
- Fienberg, Stephen E., Alessandro Rinaldo, and Xiaolin Yang (2010). “Differential privacy and the risk-utility tradeoff for multi-dimensional contingency tables”. English. In: *Privacy in Statistical Databases*. Ed. by Josep Domingo-Ferrer and Emmanouil Magkos. Vol. 6344. Lecture Notes in Computer Science. Springer Berlin Heidelberg, pp. 187–199. ISBN: 978-3-642-15837-7. DOI: 10.1007/978-3-642-15838-4_17. URL: http://dx.doi.org/10.1007/978-3-642-15838-4_17.
- Gaboardi, Marco, Emilio Jesús Gallego Arias, Justin Hsu, Aaron Roth, and Zhiwei Steven Wu (2014). “Dual query: practical private query release for high dimensional data”. In: *CoRR* abs/1402.1526. DOI: 10.29012/jpc.v7i2.650. URL: <http://arxiv.org/abs/1402.1526>.
- Gaboardi, Marco, Emilio Jes, and Justin Hsu (2014). “Dual Query : Practical Private Query Release for High Dimensional Data”. In: *arXiv* 32, pp. 1–17. DOI: 10.29012/jpc.v7i2.650. arXiv: [arXiv:1402.1526v1](https://arxiv.org/abs/1402.1526v1). URL: <http://proceedings.mlr.press/v32/gaboardi14.pdf>.
- Gehrke, Johannes, Edward Lui, and Rafael Pass (2011). “Towards privacy for social networks: A zero-knowledge based definition of privacy”. In: *Theory of Cryptography Conference*. Springer, pp. 432–449.
- Geng, Quan and Pramod Viswanath (2012). “Optimal Noise-Adding Mechanism in Differential Privacy”. In: *CoRR* abs/1212.1186. URL: <http://arxiv.org/abs/1212.1186>.

- Ghosh, Arpita and Robert Kleinberg (2016). “Inferential Privacy Guarantees for Differentially Private Mechanisms”. In: *CoRR* abs/1603.01508. DOI: N/A. URL: <http://arxiv.org/abs/1603.01508>.
- Ghosh, Arpita, Tim Roughgarden, and Mukund Sundararajan (2012). “Universally Utility-maximizing Privacy Mechanisms”. In: *SIAM Journal on Computing* 41.6, pp. 1673–1693. DOI: 10.1137/09076828X. eprint: <https://doi.org/10.1137/09076828X>. URL: <https://doi.org/10.1137/09076828X>.
- Goldwasser, Shafi and Silvio Micali (1984). “Probabilistic encryption”. In: *Journal of Computer and System Sciences* 28.2, pp. 270–299. ISSN: 0022-0000. DOI: 10.1016/0022-0000(84)90070-9. URL: <http://www.sciencedirect.com/science/article/pii/0022000084900709>.
- Goldwasser, Shaft and Silvio Micali (1982). “Probabilistic encryption & how to play mental poker keeping secret all partial information”. In: *STOC '82 Proceedings of the fourteenth annual ACM symposium on Theory of computing*, pp. 365–377. DOI: 10.1145/800070.802212. URL: <http://dl.acm.org/citation.cfm?id=802212>.
- Golle, Philippe and Kurt Partridge (2009). “On the anonymity of home/work location pairs”. In: *Lecture Notes in Computer Science (including sub-series Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)* 5538 LNCS, pp. 390–397. ISSN: 0302-9743. DOI: 10.1007/978-3-642-01516-8_26. URL: https://link.springer.com/chapter/10.1007%2F978-3-642-01516-8_26.
- Greenberg, Bernard G., Abdel-Latif A. Abul-Ela, Walt R. Simmons, and Daniel G. Horvitz (1969). “The unrelated question randomized response model: theoretical framework”. In: *Journal of the American Statistical Association* 64.326, pp. 520–539. DOI: 10.1080/01621459.1969.10500991. eprint: <http://www.tandfonline.com/doi/pdf/10.1080/01621459.1969.10500991>. URL: <http://www.tandfonline.com/doi/abs/10.1080/01621459.1969.10500991>.
- Hardt, Moritz and Aaron Roth (2013). “Beyond worst-case analysis in private singular vector computation”. In: *Stoc*, p. 331. ISSN: 0737-8017. DOI: 10.1145/2488608.2488650. arXiv: 1211.0975. URL: <http://dl.acm.org/citation.cfm?doid=2488608.2488650>.
- Hardt, Mortiz and Kunal Talwar (2010). “On the Geometry of Differential Privacy”. In: *Proceedings of the Forty-second ACM Symposium on Theory of Computing*. STOC '10. ACM, pp. 705–714. ISBN: 978-1-4503-0050-6. DOI: 10.1145/1806689.1806786.

- Hay, Michael, Ashwin Machanavajjhala, Gerome Miklau, Yan Chen, and Dan Zhang (2016). “Principled evaluation of differentially private algorithms using dpbench”. In: *SIGMOD*. DOI: 10.1145/2882903.2882931. URL: <http://arxiv.org/pdf/1512.04817v1.pdf>.
- Hay, Michael, Vibhor Rastogi, Gerome Miklau, and Dan Suciu (2009b). “Boosting the Accuracy of Differentially-Private Histograms Through Consistency”. In: *Proceedings of the VLDB Endowment* 3.1-2, p. 15. ISSN: 2150-8097. DOI: 10.14778/1920841.1920970. arXiv: 0904.0942. URL: <http://arxiv.org/abs/0904.0942>.
- Jorgensen, Z., T. Yu, and G. Cormode (2015). “Conservative or liberal? Personalized differential privacy”. In: *2015 IEEE 31st International Conference on Data Engineering*, pp. 1023–1034. DOI: 10.1109/ICDE.2015.7113353. URL: <https://ieeexplore.ieee.org/document/7113353>.
- Kairouz, Peter, Sewoong Oh, and Pramod Viswanath (2016). “Extremal Mechanisms for Local Differential Privacy”. In: *J. Mach. Learn. Res.* 17.1, pp. 492–542. ISSN: 1532-4435. DOI: N/A. URL: <http://papers.nips.cc/paper/5392-extremal-mechanisms-for-local-differential-privacy>.
- Kasiviswanathan, Shiva Prasad, Homin K. Lee, Kobbi Nissim, Sofya Raskhodnikova, and Adam Smith (2011). “What Can We Learn Privately?” In: *SIAM J. Comput.* 40.3, pp. 793–826. ISSN: 0097-5397.
- Kasiviswanathan, Shiva Prasad, Mark Rudelson, and Adam Smith (2013). “The power of linear reconstruction attacks”. In: *Proceedings of the twenty-fourth annual ACM-SIAM symposium on Discrete algorithms SODA ’13*. ACM Digital Library, pp. 1415–1433. URL: <https://arxiv.org/abs/1210.2381v1>.
- Kifer, Daniel and Ashwin Machanavajjhala (2011). “No free lunch in data privacy”. In: *Proceedings of the 2011 ACM SIGMOD International Conference on Management of Data*. SIGMOD ’11. Athens, Greece: ACM Digital Library, pp. 193–204. ISBN: 978-1-4503-0661-4. DOI: 10.1145/1989323.1989345. URL: <http://doi.acm.org/10.1145/1989323.1989345>.
- (2012). “A rigorous and customizable framework for privacy”. In: *Proceedings of the 31st symposium on Principles of Database Systems - PODS ’12*, p. 77. DOI: 10.1145/2213556.2213571. URL: <http://dl.acm.org/citation.cfm?doid=2213556.2213571>.
- Kifer, Daniel, Adam Smith, and Abhradeep Thakurta (2012). “Private Convex Empirical Risk Minimization and High-dimensional Regression”. In:

- Journal of Machine Learning Research: Workshop and Conference Proceedings* 23. Pages 25.1–25.40, pp. 25.1–25.40.
- Kuo, Yu-Hsuan, Cho-Chun Chiu, Daniel Kifer, Michael Hay, and Ashwin Machanavajjhala (2018). “Differentially Private Hierarchical Group Size Estimation”. In: *CoRR* abs/1804.00370. DOI: 10.14778/3236187.3236202. arXiv: 1804.00370. URL: <http://arxiv.org/abs/1804.00370>.
- Lee, Jaewoo and Chris Clifton (2011). “How much is enough? choosing ϵ for differential privacy”. In: *Information Security: 14th International Conference, ISC 2011 and Xi'an, China and October 26-29, 2011. Proceedings*. Ed. by Xuejia Lai, Jianying Zhou, and Hui Li. Berlin, Heidelberg: Springer Berlin Heidelberg, pp. 325–340. ISBN: 978-3-642-24861-0. DOI: 10.1007/978-3-642-24861-0_22. URL: http://dx.doi.org/10.1007/978-3-642-24861-0_22.
- Li, Chao, Michael Hay, Gerome Miklau, and Yue Wang (2014). “Xarchive A Data- and Workload-Aware Algorithm for Range Queries Under Differential Privacy”. In: *Pvldb* 7.5, pp. 341–352. ISSN: 2150-8097. arXiv: arXiv: 1410.0265v1. URL: <http://www.vldb.org/pvldb/vol7/p341-li.pdf>.
- Li, Chao, Michael Hay, Vibhor Rastogi, Gerome Miklau, and Andrew McGregor (2009). “Optimizing Histogram Queries under Differential Privacy”. In: *ArXiv*, p. 22. arXiv: 0912.4742. URL: <http://arxiv.org/abs/0912.4742>.
- (2010). “Optimizing linear counting queries under differential privacy”. In: *Proceedings of the twenty-ninth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems of data - PODS10*. Association for Computing Machinery (ACM), pp. 123–134. DOI: 10.1145/1807085.1807104. URL: <http://dx.doi.org/10.1145/1807085.1807104>.
- Li, Chao and Gerome Miklau (2012). “An adaptive mechanism for accurate query answering under differential privacy”. In: *Proceedings of the VLDB Endowment* 5.6, pp. 514–525. ISSN: 2150-8097. DOI: 10.14778/2168651.2168653. arXiv: arXiv: 1202.3807v1. URL: <http://dl.acm.org/citation.cfm?id=2168653>.
- Li, Ninghui, Wahbeh Qardaji, and Dong Su (2012). “On sampling, anonymization, and differential privacy or, k-anonymization meets differential privacy”. In: *Proceedings of the 7th ACM Symposium on Information, Computer and Communications Security*. ACM, pp. 32–33. DOI: 10.1145/2414456.2414474.

- Lin, Bing-Rong and Daniel Kifer (2013). “Information preservation in statistical privacy and bayesian estimation of unattributed histograms”. In: *Proceedings of the 2013 international conference on Management of data - SIGMOD '13*, p. 677. ISSN: 0730-8078. DOI: 10.1145/2463676.2463721. URL: <http://dl.acm.org/citation.cfm?doid=2463676.2463721>.
- Lin, Bing-Rong, Ye Wang, and Shantanu Rane (2013). “On the Benefits of Sampling in Privacy Preserving Statistical Analysis on Distributed Databases”. In: *CoRR* abs/1304.4613. arXiv: 1304 . 4613. URL: <http://arxiv.org/abs/1304.4613>.
- Machanavajjhala, Ashwin Kumar V. (2008). “Defining and Enforcing Privacy in Data Sharing”. PhD thesis. Cornell University.
- Machanavajjhala, Ashwin, Johannes Gehrke, and Michaela Götz (2009). “Data Publishing against Realistic Adversaries”. In: *Proceedings of the VLDB Endowment*, pp. 790–801. ISSN: 2150-8097. DOI: 10 . 14778 / 1687627 . 1687717.
- Machanavajjhala, Ashwin and Daniel Kifer (2015). “Designing Statistical Privacy for Your Data”. In: *Communications of the ACM* 58.3, pp. 58–67. ISSN: 0001-0782. DOI: 10 . 1145 / 2660766. URL: <https://dl.acm.org/citation.cfm?id=2739250.2660766>.
- McKenna, Ryan, Gerome Miklau, Michael Hay, and Ashwin Machanavajjhala (2018b). “Optimizing error of high-dimensional statistical queries under differential privacy”. In: *arXiv*. URL: <https://arxiv.org/abs/1808.03537>.
- (2018c). “Optimizing error of high-dimensional statistical queries under differential privacy”. In: *Proceedings of the VLDB Endowment* 11.10. DOI: 10 . 14778 / 3231751 . 3231769. URL: <https://dl.acm.org/citation.cfm?id=3242939>.
- McSherry, Frank (2009). “Privacy Integrated Queries”. In: *Proceedings of the 2009 ACM SIGMOD International Conference on Management of Data (SIGMOD)*. URL: <https://www.microsoft.com/en-us/research/publication/privacy-integrated-queries/>.
- Mir, D.J., S. Isaacman, R. Caceres, M. Martonosi, and R.N. Wright (2013). “Dp-where: differentially private modeling of human mobility”. In: *Conference on Big Data, 2013 IEEE International*, pp. 580–588. DOI: 10 . 1109/BigData.2013.6691626.
- Muthukrishnan, S. and Alexkandar Nikolov (2012). “Optimal private halfspace counting via discrepancy”. In: *Proceedings of the forty-fourth annual*

- ACM Symposium on Theory of Computing STOC '12*. ACM Digital Library, pp. 1285–1292. DOI: 10.1145/2213977.2214090.
- Narayanan, Arvind and Vitaly Shmatikov (2008). “Robust De-anonymization of Large Sparse Datasets”. In: *Proceedings of the 2008 IEEE Symposium on Security and Privacy*. SP '08. DOI:10.1109/SP.2008.33. Washington, DC, USA: IEEE Computer Society, pp. 111–125. ISBN: 978-0-7695-3168-7. URL: <https://doi.org/10.1109/SP.2008.33>.
- Neel, Seth and Aaron Roth (2018). *Mitigating Bias in Adaptive Data Gathering via Differential Privacy*. Tech. rep. arXiv.
- Nikolov, Aleksandar, Kunal Talwar, and Li Zhang (2013). “The Geometry of Differential Privacy: The Sparse and Approximate Cases”. In: *Proceedings of the Forty-fifth Annual ACM Symposium on Theory of Computing*. STOC '13. ACM, pp. 351–360. ISBN: 978-1-4503-2029-0. DOI: 10.1145/2488608.2488652.
- Nissim, Kobbi, Sofya Raskhodnikova, and Adam Smith (2007). “Smooth sensitivity and sampling in private data analysis”. In: *Proceedings of the thirty-ninth annual ACM symposium on Theory of computing - STOC '07* x, p. 75. ISSN: 0737-8017. DOI: 10.1145/1250790.1250803. URL: <http://portal.acm.org/citation.cfm?doid=1250790.1250803>.
- Park, Mijung, James Foulds, Kamalika Chaudhuri, and Max Welling (2016). *Variational bayes in private settings (VIPS)*. Tech. rep. arxiv.org. DOI: N/A. URL: <https://arxiv.org/abs/1611.00340>.
- Proserpio, Davide, Sharon Goldberg, and Frank McSherry (2014). “Calibrating data to sensitivity in private data analysis: a platform for differentially-private analysis of weighted datasets”. In: *Proceedings of the VLDB Endowment* 7.8, pp. 637–648. ISSN: 2150-8097. DOI: 10.14778/2732296.2732300. URL: <http://dx.doi.org/10.14778/2732296.2732300>.
- Qardaji, Wahbeh, Weining Yang, and Ninghui Li (2013). “Understanding hierarchical methods for differentially private histograms”. In: *39th International Conference on Very Large Data Bases VDBL 2013* 6.14, pp. 1954–1965. URL: <http://www.vldb.org/pvldb/vol6/p1954-qardaji.pdf>.
- Rogers, Ryan M., Aaron Roth, Adam D. Smith, and Om Thakkar (2016). “Max-Information, Differential Privacy, and Post-Selection Hypothesis Testing”. In: *CoRR* abs/1604.03924. DOI: 10.1109/focs.2016.59. URL: <http://arxiv.org/abs/1604.03924>.
- Roth, Aaron and Tim Roughgarden (2010). “Interactive privacy via the median mechanism”. In: *Proceedings of the 42nd ACM symposium on Theory of computing - STOC '10*, pp. 765–774. ISSN: 0737-8017. DOI: 10.

- 1145/1806689.1806794. arXiv: 0911.1813. URL: <http://portal.acm.org/citation.cfm?doid=1806689.1806794> \$%5Cbackslash\$http://dl.acm.org/citation.cfm?id=1806794.
- Schmutte, Ian M. (2016). “Differentially Private Release of Data on Wage and Job Mobility”. In: *Statistical Journal of the IAOS* 32.1, pp. 81–92. DOI: 10.3233/SJI-160962. URL: <https://content.iospress.com/articles/statistical-journal-of-the-iaos/sji962>.
- Sheffet, Or (2015). “Differentially private least squares: estimation, confidence and rejecting the null hypothesis”. In: *CoRR* abs/1507.02482. DOI: N/A. URL: <http://webdocs.cs.ualberta.ca/~osheffet/OLS.html>.
- Shlomo, Natalie and Chris J Skinner (2012). “Privacy protection from sampling and perturbation in survey microdata”. In: *Journal of Privacy and Confidentiality* 4.1, p. 7.
- Shokri, Reza and Vitaly Shmatikov (2015). “Privacy-preserving deep learning”. In: *CCS'15*. DOI: 10.1145/2810103.2813687. URL: <https://dl.acm.org/citation.cfm?doid=2810103.2813687>.
- Ullman, Jonathan (2014). “Private Multiplicative Weights Beyond Linear Queries”. In: *arXiv*, pp. 1–17. DOI: 10.1145/2745754.2745755. arXiv: [arXiv:1407.1571v1](https://arxiv.org/abs/1407.1571v1). URL: <https://dl.acm.org/citation.cfm?doid=2745754.2745755>.
- Vadhan, Salil (2017). “The Complexity of Differential Privacy”. In: *Tutorials on the Foundations of Cryptography: Dedicated to Oded Goldreich*. Ed. by Yehuda Lindell. Springer International Publishing, pp. 347–450. ISBN: 978-3-319-57048-8. DOI: 10.1007/978-3-319-57048-8_7. URL: https://link.springer.com/chapter/10.1007/978-3-319-57048-8_7.
- Wang, Yu-Xiang, Stephen E. Fienberg, and Alex Smola (2015). “Privacy for Free: Posterior Sampling and Stochastic Gradient Monte Carlo”. In: *arXiv*, pp. 1–27. DOI: N/A. arXiv: 1502.07645. URL: <http://proceedings.mlr.press/v37/wangg15.pdf>.
- Wang, Ye, Yuksel Ozan Basciftci, and Prakash Ishwar (2017). “Privacy-Utility Tradeoffs under Constrained Data Release Mechanisms”. In: *CoRR* abs/1710.09295. DOI: N/A. arXiv: 1710.09295. URL: <http://arxiv.org/abs/1710.09295>.
- Wasserman, Larry and Shuheng Zhou (2010). “A Statistical Framework for Differential Privacy”. In: *Journal of the American Statistical Association* 105.489, pp. 375–389. ISSN: 0162-1459. DOI: 10.1198/jasa.2009.tm08651. arXiv: [arXiv:0811.2501v2](https://arxiv.org/abs/0811.2501v2).

- Yang, Xiaolin, Stephen E. Feinberg, and Alessandro Rinaldoi (2012). “Differential Privacy for Protecting Multi-dimensional Contingency Table Data: Extensions and Applications”. In: *Journal of Privacy and Confidentiality* 4.1, pp. 101–125. DOI: 10.29012/jpc.v4i1.613. URL: <https://journalprivacyconfidentiality.org/index.php/jpc/article/view/613>.
- Yu, Fei, Stephen E. Fienberg, Aleksandra B. Slavkovic, and Caroline Uhler (2014). “Scalable privacy-preserving data sharing methodology for genome-wide association studies”. In: *Journal of Biomedical Informatics* 50. Special Issue on Informatics Methods in Medical Privacy, pp. 133–141. ISSN: 1532-0464. DOI: <https://doi.org/10.1016/j.jbi.2014.01.008>. URL: <http://www.sciencedirect.com/science/article/pii/S1532046414000100>.
- Zhou, Shuheng, Katrina Ligett, and Larry Wasserman (2009). “Differential privacy with compression”. In: *IEEE International Symposium on Information Theory - Proceedings*, pp. 2718–2722. DOI: 10.1109/ISIT.2009.5205863. arXiv: 0901.1365.

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- Arrieta-Ibarra, Imanol, Leonard Goff, Diego Jimfffdfffnez-Hernfffdffffndnez, Jaron Lanier, and E. Glen Weyl (2018). “Should We Treat Data as Labor? Moving beyond “Free””. In: *AEA Papers and Proceedings* 108, pp. 38–42. DOI: 10.1257/pandp.20181003. URL: <http://www.aeaweb.org/articles?id=10.1257/pandp.20181003>.
- Athey, Susan, Christian Catalini, and Catherine Tucker (2017). *The Digital Privacy Paradox: Small Money, Small Costs, Small Talk*. Working Paper 23488. National Bureau of Economic Research. DOI: 10.3386/w23488. URL: <http://www.nber.org/papers/w23488>.
- Bergstrom, Theodore, Lawrence Blume, and Hal Varian (1986). “On the private provision of public goods”. In: *Journal of Public Economics* 29.1, pp. 25–49. ISSN: 0047-2727. DOI: 10.1016/0047-2727(86)90024-1. URL: <http://www.sciencedirect.com/science/article/pii/0047272786900241> %20<http://www.sciencedirect.com/science/article/pii/0047272786900241/pdf?md5=937f657636d8e9801673dcfdaecb3ec6%7B%5C%7Dpid=1-s2.0-0047272786900241-main.pdf>.

- Easterbrook, Frank H (1980). "Privacy and the Optimal Extent of Disclosure under the Freedom of Information Act". In: *The Journal of Legal Studies* 9.4, pp. 775–800. ISSN: 0047-2530. DOI: 10.1086/467664. URL: <http://www.jstor.org/stable/724181>.
- Ghosh, Arpita and Aaron Roth (2011). "Selling privacy at auction". In: *Proceedings of the 12th ACM conference on Electronic commerce*. EC '11. San Jose, California, USA: ACM, pp. 199–208. ISBN: 978-1-4503-0261-6. DOI: 10.1145/1993574.1993605. URL: <https://dl.acm.org/citation.cfm?doid=1993574.1993605>.
- Goldfarb, A, S M Greenstein, and C E Tucker (2015). *Economic Analysis of the Digital Economy*. ISBN: 9780226206844. DOI: 10.7208/chicago/9780226206981.001.0001. URL: <https://books.google.co.uk/books?id=6jPBBwAAQBAJ>.
- Goldfarb, Avi and Catherine Tucker (2011). "Privacy Regulation and Online Advertising". In: *Management Science* 57.1, pp. 57–71. URL: <https://EconPapers.repec.org/RePEc:inm:ormnsc:v:57:y:2011:i:1:p:57-71>.
- Gould, John (1980). "Privacy and the Economics of Information". In: *The Journal of Legal Studies* 9.4, pp. 827–842. ISSN: 0047-2530. DOI: 10.1086/467668. URL: <https://www.journals.uchicago.edu/doi/abs/10.1086/467668?journalCode=jls>.
- Hui, Kai-Lung, I P L Png, Thank Jean Camp, Robert Hahn, Karim Jamal, Luc Wathieu, and Terry Hendershott (2006). "The Economics of Privacy". In: *Handbooks in Information Systems, Economics and Information Systems*, pp. 471–493. DOI: N/A. URL: https://papers.ssrn.com/sol3/papers.cfm?abstract_id=786846.
- Jia, Jian, Ginger Zhe Jin, and Liad Wagman (2018). *The Short-Run Effects of GDPR on Technology Venture Investment*. Working Paper 25248. National Bureau of Economic Research. DOI: 10.3386/w25248. URL: <http://www.nber.org/papers/w25248>.
- Jia, Jian, Ginger Zhe Lin, and Liad Wagman (2018). *THE SHORT-RUN EFFECTS OF GDPR ON TECHNOLOGY VENTURE INVESTMENT*. Tech. rep. 25248. NBER.
- Kearns, Michael, Mallesh M. Pai, Aaron Roth, and Jonathan Ullman (2014). "Mechanism design in large games: Incentives and privacy". In: *American Economic Review* 104.5, pp. 431–435. ISSN: 0002-8282. DOI: 10.1257/aer.104.5.431. arXiv: 1207.4084 [cs.GT]. URL: <https://www.aeaweb.org/articles?id=10.1257/aer.104.5.431>.

- Kim, Jin-Hyuk and Liad Wagman (2015). “Screening incentives and privacy protection in financial markets: a theoretical and empirical analysis”. In: *The RAND Journal of Economics* 46.1, pp. 1–22. DOI: 10.1111/1756-2171.12083. eprint: <https://onlinelibrary.wiley.com/doi/pdf/10.1111/1756-2171.12083>. URL: <https://onlinelibrary.wiley.com/doi/abs/10.1111/1756-2171.12083>.
- Kronman, Anthony T. (1980). “The Privacy Exemption to the Freedom of Information Act”. In: *The Journal of Legal Studies* 9.4, pp. 727–774. URL: <http://www.jstor.org/stable/724180>.
- Odlyzko, Andrew (2004). “Privacy, Economics, and Price Discrimination on the Internet”. In: *Economics of Information Security*. Ed. by L. Jean Camp and Stephen Lewis. Boston, MA: Springer US, pp. 187–211. ISBN: 978-1-4020-8090-6. DOI: 10.1007/1-4020-8090-5_15.
- Pai, Mallesh M. and Aaron Roth (2013b). “Privacy and mechanism design”. In: *SIGecom Exchanges* 12.1, pp. 8–29. ISSN: 1551-9031. DOI: 10.1145/2509013.2509016. URL: <http://doi.acm.org/10.1145/2509013.2509016>.
- Roth, Aaron (2012). “Buying Private Data at Auction : The Sensitive Surveyor’s Problem”. In: *SIGecom Exch.* 11.1, pp. 1–8. ISSN: 1551-9031. DOI: 10.1145/2325713.2325714. URL: <http://doi.acm.org/10.1145/2325713.2325714>.
- Xiao, David (2013). “Is Privacy Compatible with Truthfulness?” In: *Proceedings of the 4th Conference on Innovations in Theoretical Computer Science*. ITCS ’13. Berkeley, California, USA: ACM, pp. 67–86. ISBN: 978-1-4503-1859-4. DOI: 10.1145/2422436.2422448. URL: <http://doi.acm.org/10.1145/2422436.2422448>.

Official Statistics

- Bean, Charles (2016). *Independent review of UK economic statistics*. Cabinet Office, HM Treasury, The Rt Hon Matt Hancock, and The Rt Hon George Osborne. DOI: N/A. URL: <https://www.gov.uk/government/publications/independent-review-of-uk-economic-statistics-final-report>.
- Billard, Lynne (2000). “The Census Count: Who Counts? How Do We Count? When Do We Count?” In: *PS: Political Science and Politics* 33.4, pp. 767–

774. ISSN: 10490965, 15375935. URL: <http://www.jstor.org/stable/420913>.
- Brunell, Thomas L. (2000a). "Making Sense of the Census: It's Political". In: *PS: Political Science and Politics* 33.4, pp. 801–802. ISSN: 10490965, 15375935. URL: <http://www.jstor.org/stable/420918>.
- (2000b). "Rejoinder to Anderson and Fienberg". In: *PS: Political Science and Politics* 33.4, pp. 793–794. ISSN: 10490965, 15375935. URL: <http://www.jstor.org/stable/420916>.
- (2000c). "Using Statistical Sampling to Estimate the U. S. Population: The Methodological and Political Debate over Census 2000". In: *PS: Political Science and Politics* 33.4, pp. 775–782. ISSN: 10490965, 15375935. URL: <http://www.jstor.org/stable/420914>.
- Childs, Jennifer Hunter (2014). *Understanding Trust in Official Statistics in the United States*. Presentation at the 67th annual WAPOR conference in Nice, France in 2014. https://wapor.org/wp-content/uploads/WAPOR_Final_Program.pdf.
- Childs, Jennifer Hunter, Stephanie Willson, Shelly Wilkie Martinez, Laura Rasmussen, and Monica Wroblewski (2012). "Development of the Federal Statistical System Public Opinion Survey". In: *JSM Proceedings Survey Research Methods Section*. (American Statistical Association). http://www.aapor.org/AAPOR_Main/media/AnnualMeetingProceedings/2012/04_Childs-A6.pdf.. Alexandria, VA.
- Conrey, Frederica R., Randal ZuWallack, and Robynne Locke (2012). *Census Barriers, Attitudes, and Motivators Survey II Final Report*. Tech. rep. ICF Macro.
- Mulry, Mary H. and Bruce D. Spencer (1991). "Total Error in PES Estimates of Population". In: *Journal of the American Statistical Association* 86.416, pp. 839–855.
- (1993). "Accuracy of the 1990 Census and Undercount Adjustments". In: *Journal of the American Statistical Association* 88.423, pp. 1080–1091.
- National Academies of Sciences, Engineering, and Medicine (2017b). *Principles and Practices for a Federal Statistical Agency, Sixth Edition*. Washington, DC: The National Academies Press. DOI: 10.17226/24810. URL: <https://www.nap.edu/catalog/24810/principles-and-practices-for-a-federal-statistical-agency-sixth-edition>.
- National Institutes of Health (2014). *NIH Genomic Data Sharing Policy*. <https://grants.nih.gov/grants/guide/notice-files/NOT-OD-14->

124.html. Accessed: March 13, 2018. DOI: N/A. URL: <https://grants.nih.gov/grants/guide/notice-files/NOT-OD-14-124.html>.

Statistical Disclosure Limitation

- Chowdhury, Sumit Dutta, George T Duncan, Ramayya Krishnan, Stephen F Roehrig, and Sumitra Mukherjee (1999). "Disclosure Detection in Multivariate Categorical Databases: Auditing Confidentiality Protection Through Two New Matrix Operators". In: *Management Science* 45.12, pp. 1710–1723. ISSN: 0025-1909. DOI: 10.1287/mnsc.45.12.1710. URL: <http://mansci.journal.informs.org/content/45/12/1710.abstract>\$%5Cbackslash\$<http://mansci.journal.informs.org/cgi/doi/10.1287/mnsc.45.12.1710>.
- Dalenius, T. (1981). "A Simple Procedure for Controlled Rounding". In: *Statistik Tidskrift* 3, pp. 202–208.
- Denning, D.E. (1980). "Secure statistical databases with random sample queries". In: *ACM Transactions on Database Systems* 5.3, pp. 291–315. DOI: 10.1145/320613.320616. URL: <https://dl.acm.org/citation.cfm?id=320616>.
- Duncan Fienberg, S, G (1998). "Obtaining information while preserving privacy: a Markov perturbation method for tabular data". In: *Proceedings of the Statistical Data Protection Conference*, pp. 351–362. DOI: N/A. URL: https://www.researchgate.net/profile/George_Duncan/publication/228558388_Obtaining_information_while_preserving_privacy_A_Markov_perturbation_method_for_tabular_data/links/02e7e52843fc38389f000000.pdf.
- Duncan, George T., Mark Elliot, and Juan-José Salazar-González (2011). *Statistical confidentiality principles and practice*. Statistics for Social and Behavioral Sciences. Springer New York. ISBN: 9781441978028. DOI: 10.1111/j.1751-5823.2012.00196_11.x. URL: https://onlinelibrary.wiley.com/doi/full/10.1111/j.1751-5823.2012.00196_11.x.
- Duncan, George T. and Stephen E. Fienberg (1999). "Obtaining information while preserving privacy: a markov perturbation method for tabular data". In: *Statistical Data Protection (SDP '98)*. Eurostat, pp. 351–362. DOI: N/A. URL: https://www.researchgate.net/profile/George_Duncan/publication/228558388_Obtaining_information_while_

- [preserving_privacy_A_Markov_perturbation_method_for_tabular_data/links/02e7e52843fc38389f000000.pdf](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC38389f000000.pdf).
- Duncan, George T, Thomas B Jabine, and A Virginia (1993). *Private Lives and.* ISBN: 0309576113.
- Duncan, George and Diane Lambert (1989). “The Risk of Disclosure for Microdata”. English. In: *Journal of Business & Economic Statistics* 7.2, pp. 207–217. ISSN: 0735-0015. DOI: 10.1080/07350015.1989.10509729. URL: <http://www.jstor.org/stable/1391438>.
- Duncan, G.T., S.E. Fienberg, R. Krishnan, R. Padman, and S.F. Roehrig (2001). “Disclosure limitation methods and information loss for tabular data”. In: *Confidentiality, Disclosure and Data Access: Theory and Practical Applications for Statistical Agencies*. Ed. by P. Doyle, J. Lane, J. Theeuwes, and L. Zayatz. Elsevier, pp. 135–166. DOI: N/A. URL: https://s3.amazonaws.com/academia.edu.documents/30788537/duncan-lanechapter.pdf?AWSAccessKeyId=AKIAIWOWYYGZ2Y53UL3A&Expires=1549498342&Signature=XhGYpq18%2FuQL9gPDYFPnAyU3nRo%3D&response-content-disposition=inline%3B%20filename%3DDisclosure_limitation_methods_and_inform.pdf.
- Federal Committee on Statistical Methodology (2005). *Report on statistical disclosure limitation methodology*. Tech. rep. Statistical et al. DOI: N/A. URL: N/A.
- Fienberg, Stephen E and Russell J Steele (1998). “Disclosure limitation using perturbation and related methods for categorical data”. In: *Journal of Official Statistics* 14.4, p. 485.
- Gehrke, Johannes, Michael Hay, Edward Lui, and Rafael Pass (2012). “Crowd-blending privacy”. In: *Advances in Cryptology-CRYPTO 2012*, pp. 479–496. DOI: 10.1007/978-3-642-32009-5_28.
- Gouweleeuw, JM, Peter Kooiman, and P-P De Wolf (1998). “Post randomisation for statistical disclosure control: Theory and implementation”. In: *Journal of official Statistics* 14.4, p. 463.
- Hall, Roband and Stephen E. Fienberg (2010). “Privacy-Preserving Record Linkage”. In: *Privacy in Statistical Databases*. Ed. by Josepand Domingo-Ferrer and Emmanouil Magkos. Springer Berlin Heidelberg, pp. 269–283. ISBN: 978-3-642-15838-4. DOI: 10.1007/978-3-642-15838-4_24.
- Hu, J., J.P. Reiter, and Q. Wang (2015). “Dirichlet process mixture models for nested categorical data”. In: *ArXiv*. URL: <http://arxiv.org/abs/1412.2282v3>.

- Hundepool, Anco et al. (2012). “Statistical disclosure control”. In: *Wiley series in survey methodology*. DOI: 10.1002/9781118348239. URL: <https://onlinelibrary.wiley.com/doi/book/10.1002/9781118348239>.
- Little, Roderick J A, Fang Liu, Trivellore E Raghunathan, Andrew Gelman, and Xiao Li Meng (2004). “Statistical disclosure techniques based on multiple imputation”. In: *Applied Bayesian modeling and causal inference from incomplete-data perspectives*, pp. 141–152.
- Miranda, Javier and Lars Vilhuber (2016). “Using partially synthetic microdata to protect sensitive cells in business statistics”. In: *Statistical Journal of the International Association for Official Statistics* 32.1, pp. 69–80. DOI: 10.3233/SJI-160963. URL: <https://content.iospress.com/articles/statistical-journal-of-the-iaos/sji963>.
- Ramachandran, A., L. Singh, E. Porter, and F. Nagle (2012). “Exploring re-identification risks in public domains”. In: *2012 Tenth Annual International Conference on Privacy, Security and Trust*, pp. 35–42. DOI: 10.1109/PST.2012.6297917.
- Reiter, Jerome P (2005). “Estimating risks of identification disclosure in microdata”. In: *Journal of the American Statistical Association* 100.472, pp. 1103–1112. ISSN: 0162-1459. DOI: 10.1198/01621450500000619. URL: <http://www.tandfonline.com/doi/abs/10.1198/01621450500000619>.
- Singer, Eleanor (2003). *Privacy research in census 2000*. Tech. rep. TR-1. Census 2000 Testing, Experimentation, and Evaluation Program Topic Report. U.S. Census Bureau.
- Thorburn, Daniel (1983). “On Methods for Disclosure Control in Longitudinal Studies”. In: *Statistik Tidskrift* 2, pp. 93–101.
- Trottini, Mario and Stephen E. Fienberg (2002). “Modelling User Uncertainty for Disclosure Risk and Data Utility”. In: *International Journal of Uncertainty and Fuzziness in Knowledge-Based Systems* 10.5, pp. 511–527. ISSN: 0218-4885. DOI: 10.1142/S0218488502001612. URL: <http://dx.doi.org/10.1142/S0218488502001612>.
- Vilhuber, Lars, John M. Abowd, and Jerome P. Reiter (2016). “Synthetic establishment microdata around the world”. In: *Statistical Journal of the International Association for Official Statistics* 32.1, pp. 65–68. DOI: 10.3233/SJI-160964. URL: <https://ecommons.cornell.edu/handle/1813/42340>.
- Warner, Stanley L. (1965). “Randomized Response: A Survey Technique for Eliminating Evasive Answer Bias”. In: *Journal of the American Statistical*

- Association* 60.309, pp. 63–69. ISSN: 01621459. URL: <http://www.jstor.org/stable/2283137>.
- Woo, M., J. P. Reiter, A. Oganian, and A. F. Karr (2009). “Global Measures of Data Utility for Microdata Masked for Disclosure Limitation”. In: *Privacy and Confidentiality* 1.1, pp. 111–124. URL: <http://repository.cmu.edu/cgi/viewcontent.cgi?article=1006%7B%5C&%7Dcontext=jpc>.

Value of Privacy

- Center, Pew Research (2014). “Public Perceptions of Privacy and Security”. In: *Pew Research Center*. DOI: N/A. URL: N/A.
- Commission, European (2013). *Eurobarometer 80, Public opinion in the european union*. Tech. rep. November. European Commission.
- Couper, Mick P, Eleanor Singer, Frederick G Conrad, and Robert M Groves (2010). “Experimental studies of disclosure risk, disclosure harm, topic sensitivity, and survey participation”. In: *Journal of Official Statistics* 26.2, p. 287.
- Dwork, Cynthia, Vitaly Feldman, Moritz Hardt, Toniann Pitassi, Omer Reingold, and Aaron Roth (2014). “Preserving Statistical Validity in Adaptive Data Analysis”. In: *CoRR* abs/1411.2664. DOI: 10.1145/2746539.2746580. URL: <http://arxiv.org/abs/1411.2664>.
- (2015a). “Generalization in Adaptive Data Analysis and Holdout Reuse”. In: *CoRR* abs/1506.02629. DOI: N/A. URL: <http://arxiv.org/abs/1506.02629>.
- (2015b). “The reusable holdout: preserving validity in adaptive data analysis”. In: *Science* 349.6248, pp. 636–638. DOI: 10.1126/science.aaa9375. URL: <http://science.sciencemag.org/content/349/6248/636>.
- (2017). “Guilt-free data reuse”. In: *Commun. ACM* 60.4, pp. 86–93. ISSN: 0001-0782. DOI: 10.1145/3051088. URL: <http://doi.acm.org/10.1145/3051088>.
- Dwork, Cynthia and Jing Lei (2009). “Differential privacy and robust statistics”. In: *Proceedings of the 41st annual ACM symposium on Symposium on theory of computing - STOC '09*, p. 371. DOI: 10.1145/1536414.1536466. URL: <https://dl.acm.org/citation.cfm?doid=1536414.1536466>.

- European Commission (2011). *SPECIAL EUROBAROMETER 359 Attitudes on Data Protection and Electronic Identity in the European Union*. Tech. rep. European Commission, p. 330. URL: http://ec.europa.eu/public_opinion/index_en.htm.
- Harrell, Erika (2017). *Victims of Identity Theft, 2014 (Revised November 13, 2017)*. Tech. rep. NCJ 248991. Department of Justice. URL: <https://www.bjs.gov/index.cfm?ty=pbdetail&iid=5408>.
- Kifer, Daniel and Bing-Rong Lin (2010). "Towards an Axiomatization of Statistical Privacy and Utility". In: *Proceedings of the Twenty-ninth ACM SIGMOD-SIGACT-SIGART Symposium on Principles of Database Systems*. PODS '10. Indianapolis, Indiana, USA: ACM, pp. 147–158. ISBN: 978-1-4503-0033-9. DOI: 10.1145/1807085.1807106. URL: <http://doi.acm.org/10.1145/1807085.1807106>.
- Kleinberg, Jon M, Christos H Papadimitriou, and Prabhakar Raghavan (2001). "On the Value of Private Information". In: *Conference on Theoretical Aspects of Rationality and Knowledge (TARK '01)*, pp. 249–257. DOI: 10.1111/j.1467-6451.2008.00337.x.
- Ligett, Katrina and Aaron Roth (2012). "Take It or Leave It: Running a Survey when Privacy Comes at a Cost". In: *Proceedings of the 8th International Conference on Internet and Network Economics*. WINE'12. Liverpool, UK: Springer-Verlag, pp. 378–391. ISBN: 978-3-642-35310-9. DOI: 10.1007/978-3-642-35311-6_28. URL: http://dx.doi.org/10.1007/978-3-642-35311-6_28.
- National Research Council (1979). *Privacy and confidentiality as factors in survey response*. Tech. rep. Washington, DC: National Academy of Sciences.
- TOURANGEAU, ROGER and TOM W. SMITH (1996). "ASKING SENSITIVE QUESTIONS THE IMPACT OF DATA COLLECTION MODE, QUESTION FORMAT, AND QUESTION CONTEXT". In: *Public Opinion Quarterly* 60.2, p. 275. DOI: 10.1086/297751. eprint: /oup/backfile/content_public/journal/poq/60/2/10.1086_297751/3/60-2-275.pdf. URL: +%20<http://dx.doi.org/10.1086/297751>.

Value of Data

- Bergemann, Dick and Alessandro Bonatti (2018). *Markets for Information: An Introduction*. Cowles Foundation Discussion Paper 2142. Cowles Foundation.
- Bruin, Wändi Bruine de, Charles F. Manski, Giorgio Topa, and Wilbert van der Klaauw (2011). “Measuring consumer uncertainty about future inflation”. In: *Journal of Applied Econometrics* 26.3, pp. 454–478. ISSN: 08837252, 10991255. URL: <http://www.jstor.org/stable/23017556>.
- Bruine de Bruin, Wändi, Gabrielle Wong-Parodi, and M. Granger Morgan (2014). “Public perceptions of local flood risk and the role of climate change”. In: *Environment Systems and Decisions* 34.4, pp. 591–599. ISSN: 2194-5411. DOI: 10.1007/s10669-014-9513-6. URL: <http://dx.doi.org/10.1007/s10669-014-9513-6>.
- Brynjolfsson, Erik and Kristina McElheran (2016a). *Data in Action: Data-Driven Decision Making in U.S. Manufacturing*. Working Papers. U.S. Census Bureau, Center for Economic Studies. DOI: 10.2139/ssrn.2722502. URL: <https://EconPapers.repec.org/RePEc:cen:wpaper:16-06>.
- (2016b). “The Rapid Adoption of Data-Driven Decision-Making”. In: *American Economic Review* 106.5, pp. 133–39. DOI: 10.1257/aer.p20161016. URL: <http://www.aeaweb.org/articles?id=10.1257/aer.p20161016>.
- Clark, A E, P Frijters, and M A Shields (2008). “Relative income, happiness, and utility: An explanation for the Easterlin paradox and other puzzles”. In: *Journal of Economic Literature* 46.1, pp. 95–144. ISSN: 0022-0515. DOI: 10.1257/jel.46.1.95. URL: <https://www.aeaweb.org/articles?id=10.1257/jel.46.1.95>.
- Craft, Erik D (1998). “The Value of Weather Information Services for Nineteenth-Century Great Lakes Shipping”. In: *American Economic Review* 88.5, pp. 1059–76. URL: <https://EconPapers.repec.org/RePEc:aea:aecrev:v:88:y:1998:i:5:p:1059-76>.
- Frankel, Alexander and Emir Kamenica (2018). *Quantifying information and uncertainty*. Tech. rep. University of Chicago.
- Gentzkow, Matthew and Emir Kamenica (2016). “A Rothschild-Stiglitz Approach to Bayesian Persuasion”. In: *American Economic Review* 106.5, pp. 597–601. DOI: 10.1257/aer.p20161049.

- Kamenica, Emir and Matthew Gentzkow (2011). "Bayesian Persuasion". In: *American Economic Review* 101.6, pp. 2590–2615. DOI: 10.1257/aer.101.6.2590.
- Linde, Frank (2009). "Pricing information goods". In: *Journal of Product & Brand Management* 18.5, pp. 379–384. ISSN: 1061-0421. DOI: 10.1108/10610420910981864. URL: <http://www.mendeley.com/catalog/pricing-information-goods/> \$%5Cbackslash\$http://amitre.synthasite.com/resources/varian%7B%5C_7DHal%7B%5C_%7Dprice-info-goods.pdf.
- Matthew, C R, Wallace E Huffman, Jason F Shogren, and A Tegene (2004). "Estimating the public value of conflicting information : the case of genetically modified foods". In: *Land Economics* 80.1, pp. 125–135. ISSN: 0023-7639. DOI: 10.2307/3147148. URL: <http://www.jstor.org/stable/3147148>.
- Miller, Amalia R. and Catherine Tucker (2018). "Privacy Protection, Personalized Medicine, and Genetic Testing". In: *Management Science* 64.10, pp. 4648–4668. DOI: 10.1287/mnsc.2017.2858.
- Moscarini, Giuseppe and Lones Smith (2002). "The law of large demand for information". In: *Econometrica* 70.6, pp. 2351–2366. ISSN: 1468-0262. DOI: 10.1111/j.1468-0262.2002.00442.x. URL: <http://dx.doi.org/10.1111/j.1468-0262.2002.00442.x>.
- OECD (2015). *Data-Driven Innovation*, p. 456. DOI: <https://doi.org/https://doi.org/10.1787/9789264229358-en>. URL: <https://www.oecd-ilibrary.org/content/publication/9789264229358-en>.
- Spencer, Bruce D. and Lincoln E. Moses (1990). "Needed Data Expenditure for an Ambiguous Decision Problem". In: *Journal of the American Statistical Association* 85.412, pp. 1099–1104. DOI: 10.1080/01621459.1990.10474981. eprint: <http://www.tandfonline.com/doi/pdf/10.1080/01621459.1990.10474981>. URL: <http://www.tandfonline.com/doi/abs/10.1080/01621459.1990.10474981>.
- Varian, Hal R. (2003). "Buying, Sharing and Renting Information Goods". In: *The Journal of Industrial Economics* 48.4, pp. 473–488. ISSN: 0022-1821. DOI: 10.1111/1467-6451.00133. URL: [http://doi.wiley.com/10.1111/1467-6451.00133](http://onlinelibrary.wiley.com/doi/10.1111/1467-6451.00133/full$%5Cbackslash$http://onlinelibrary.wiley.com/doi/10.1111/1467-6451.00133/full\$%5Cbackslash\$<http://doi.wiley.com/10.1111/1467-6451.00133>.