

# Yuval Filmus

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## Curriculum Vitæ and Publication List

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### Employment and Education

- 2021–present **Associate Professor**, *Technion*, Haifa, Israel
- 2015–2021 **Assistant Professor**, *Technion*, Haifa, Israel
- 2014–2015 **Member**, *Institute for Advanced Study*, Princeton, NJ
- Fall 2013 **Research Fellow**, *Simons Institute for the Theory of Computing*, Berkeley, CA
- 2009–2013 **Ph.D. in Computer Science**, *University of Toronto*  
Advisor: Prof. Toniann Pitassi.  
**Winner of the 2015 Canadian Mathematical Society Doctoral Prize.**

### Community Service

- 2023–present Vice Dean for Undergraduate Studies, Computer Science Department
- PC member CCC (2019), FOCS (2019, 2020, 2023), FSTTCS (2019), ITCS (2014, 2022, 2026), SODA (2024), SODA (2026), STACS (2022), STOC (2015, 2023, 2025), ICALP (2017, 2021, 2022, 2024).

### Students and Postdocs

- Curr (PhD) Yaroslav Alekseev, Antoine Vinciguerra, Elizaveta Nesterova
- Past (MSc) Yuval Dagan (2018), Neta Dafni (2021), Igor Margulis (2021), Gilad Chase (2023), Johnathan Spiegelman (2024)
- Past (PhD) Avi Kaplan (2023), Idan Mehalel (2025)
- Past (Post) Nitin Saurabh (2021), Marc Vinyals (2021), Alexander V. Smal (2023), Gaurav Sood (2023), Nathan Lindzey (2024)

### Invited Lecture Series

- 2025 **Introduction to Boolean Analysis**, *IBS*, Daejeon, South Korea
- 2024 **Boolean Analysis in Computer Science**, *HIM*, Bonn, Germany

### Prizes

- 2020 Krill prize
- 2016 Alon fellowship

### Grants

- 2024–2028 Israel Science Foundation
- 2019–2025 European Research Council
- 2016–2022 Israel Science Foundation

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## Journal Publications

- [1] Yuval Filmus, “Lower bounds for context-free grammars,” *Information Processing Letters*, vol. 111, no. 18, pp. 895–898, 2011.
- [2] David Ellis, Yuval Filmus, and Ehud Friedgut, “Triangle-intersecting families of graphs,” *Journal of the European Mathematical Society*, vol. 14, no. 3, pp. 841–885, 2012.
- [3] Yuval Filmus, “Inequalities on submodular functions via term rewriting,” *Information Processing Letters*, vol. 113, no. 13, pp. 457–464, 2013.
- [4] Yuval Filmus, “Universal codes of the natural numbers,” *Logical Methods in Computer Science*, vol. 9, no. 3, paper no. 7, 2013.
- [5] Yuval Filmus and Justin Ward, “Monotone submodular maximization over a matroid via non-oblivious local search,” *SIAM Journal on Computing*, vol. 43, no. 2, pp. 514–542, 2014.
- [6] Stephen A. Cook, Yuval Filmus, and Dai Tri Man Lê, “The complexity of the comparator circuit value problem,” *ACM Transactions on Computation Theory*, vol. 6, no. 4, article no. 15, 2014.
- [7] David Ellis, Yuval Filmus, and Ehud Friedgut, “A quasi-stability result for dictatorships in  $S_n$ ,” *Combinatorica*, vol. 35, no. 5, pp. 573–618, 2015.
- [8] David Ellis, Yuval Filmus, and Ehud Friedgut, “A stability result for balanced dictatorships in  $S_n$ ,” *Random Structures and Algorithms*, vol. 46, no. 3, pp. 494–530, 2015.
- [9] Yuval Filmus, Toniann Pitassi, and Rahul Santhanam, “Exponential lower bounds for  $AC^0$ -Frege imply superpolynomial Frege lower bounds,” *ACM Transactions on Computation Theory*, vol. 7, no. 2, article no. 5, 2015.
- [10] Yuval Filmus, Massimo Lauria, Mladen Mikša, Jakob Nordström, and Marc Vinyals, “From small space to small width in resolution,” *ACM Transactions on Computational Logic*, vol. 16, no. 4, p. 28, 2015.
- [11] Yuval Filmus, Massimo Lauria, Jakob Nordström, Neil Thapen, and Noga Ron-Zewi, “Space complexity in polynomial calculus,” *SIAM Journal on Computing*, vol. 44, no. 4, pp. 1119–1153, 2015.
- [12] Yuval Filmus, “An orthogonal basis for functions over a slice of the Boolean hypercube,” *Electronic Journal of Combinatorics*, vol. 23, no. 1, P1.23, 2016.
- [13] Yuval Filmus, “Friedgut–Kalai–Naor theorem for slices of the Boolean cube,” *Chicago Journal of Theoretical Computer Science*, 14:1–14:17, 2016.
- [14] Yuval Filmus, Hamed Hatami, Nathan Keller, and Noam Lifshitz, “On the sum of the  $L_1$  influences of bounded functions,” *Israel Journal of Mathematics*, vol. 214, no. 1, pp. 167–192, 2016.
- [15] David Ellis, Yuval Filmus, and Ehud Friedgut, “Low-degree Boolean functions on  $S_n$ , with an application to isoperimetry,” *Forum of Mathematics, Sigma*, vol. 5, 2017. DOI: 10.1017/fms.2017.24.
- [16] Yuval Filmus and Edinah K. Gnang, “On the spectra of hypermatrix direct sum and Kronecker products constructions,” *Linear Algebra and its Applications*, vol. 519, pp. 238–277, 2017.

- [17] Yuval Filmus, “The weighted complete intersection theorem,” *Journal of Combinatorial Theory, Series A*, vol. 151, pp. 84–101, 2017.
- [18] Yuval Filmus, Guy Kindler, Elchanan Mossel, and Karl Wimmer, “Invariance principle on the slice,” *ACM Transactions on Computation Theory*, vol. 10, no. 3, p. 11, 2018.
- [19] Yuval Dagan, Yuval Filmus, Hamed Hatami, and Yaqiao Li, “Trading information complexity for error,” *Theory of Computing*, vol. 14, no. 6, pp. 1–73, 2018.
- [20] Yoram Bachrach, Yuval Filmus, Joel Oren, and Yair Zick, “Analyzing power in weighted voting games with super-increasing weights,” *Theory of Computing Systems*, vol. 63, no. 1, pp. 150–174, 2019.
- [21] Yuval Filmus, “Another look at degree lower bounds for polynomial calculus,” *Theoretical Computer Science*, vol. 796, pp. 286–293, 2019.
- [22] Yuval Filmus and Ferdinand Ihringer, “Boolean constant degree functions on the slice are juntas,” *Discrete Mathematics*, vol. 342, no. 12, p. 111 614, 2019.
- [23] Yuval Filmus and Ferdinand Ihringer, “Boolean degree 1 functions on some classical association schemes,” *Journal of Combinatorial Theory, Series A*, vol. 162, pp. 241–270, 2019.
- [24] Yuval Filmus and Elchanan Mossel, “Harmonicity and invariance on slices of the Boolean cube,” *Probability Theory and Related Fields*, vol. 175, no. 3–4, pp. 721–782, 2019.
- [25] Yuval Filmus, Hamed Hatami, Yaqiao Li, and Suzin You, “Information complexity of the AND function in the two-party and multi-party settings,” *Algorithmica*, vol. 81, no. 11–12, pp. 4200–4237, 2019.
- [26] Yuval Filmus, “More complete intersection theorems,” *Discrete Mathematics*, vol. 342, no. 1, pp. 128–142, Jan. 2019.
- [27] Yuval Dagan, Yuval Filmus, Ariel Gabizon, and Shay Moran, “Twenty (short) questions,” *Combinatorica*, vol. 39, no. 3, pp. 597–626, 2019.
- [28] Stijn Cambie, Bogdan Chornomaz, Zeev Dvir, Yuval Filmus, and Shay Moran, “A Sauer–Shelah–Perles lemma for lattices,” *Electronic Journal of Combinatorics*, vol. 27, no. 4, P4.19, 2020.
- [29] Yuval Filmus, “FKN theorem for the multislice, with applications,” *Combinatorics, Probability and Counting*, vol. 29, no. 2, pp. 200–212, 2020. DOI: 10.1017/S0963548319000361.
- [30] Edinah K. Gnang and Yuval Filmus, “On the Bhattacharya–Mesner rank of third order hypermatrices,” *Linear Algebra and its Applications*, vol. 588, pp. 391–418, 2020.
- [31] Niv Buchbinder, Moran Feldman, Yuval Filmus, and Mohit Garg, “Online submodular maximization: Beating  $1/2$  made simple,” *Mathematical Programming*, vol. 183, pp. 149–169, 2020.
- [32] Yuval Filmus, “Boolean functions on  $S_n$  which are nearly linear,” *Discrete Analysis*, 25:1–25:27, 2021.
- [33] Yuval Filmus, Konstantin Golubev, and Noam Lifshitz, “High dimensional Hoffman bound and applications in extremal combinatorics,” *Algebraic Combinatorics*, vol. 4, no. 6, pp. 1005–1026, 2021.

- [34] Arkadev Chattopadhyay, Yuval Filmus, Sajin Korothe, Or Meir, and Toniann Pitassi, “Query-to-communication lifting for BPP using low discrepancy gadgets,” *SIAM Journal on Computing*, vol. 50, no. 1, pp. 171–210, 2021.
- [35] Yuval Filmus, Yasushi Kawase, Yusuke Kobayashi, and Yutaro Yamaguchi, “Tight approximation for unconstrained XOS maximization,” *Mathematics of Operations Research*, vol. 46, no. 4, pp. 1599–1610, 2021.
- [36] Yuval Filmus, Ryan O’Donnell, and Xinyu Wu, “Log-Sobolev inequality for the multislice, with applications,” *Electron. J. Probab.*, vol. 27, pp. 1–30, 2022, ISSN: 1083-6489. DOI: 10.1214/22-EJP749.
- [37] Yuval Filmus, Edward Hirsch, Sascha Kurz, Ferdinand Ihringer, Artur Riazanov, Alexander Smal, and Marc Vinyals, “Irreducible subcube partitions,” *Elec. J. Comb.*, vol. 30, no. 3, P3.29, 2023.
- [38] Yuval Filmus, “Junta threshold for low degree Boolean functions on the slice,” *Elec. J. Comb.*, vol. 30, no. 1, 2023.
- [39] Yuval Filmus, Meena Mahajan, Gaurav Sood, and Marc Vinyals, “MaxSAT resolution and subcube sums,” *Transactions on Computational Logic*, vol. 24, no. 1, 8:1–8:27, 2023.
- [40] Yuval Filmus, Eldar Fischer, Johann A. Makowski, and Vsevolod Rakita, “MC-finiteness of restricted set partition functions,” *J. Integer. Seq.*, 2023.
- [41] Yuval Filmus, Or Meir, and Avishay Tal, “Shrinkage under random projections, and cubic formula lower bounds for  $\text{mathit{AC}}^0$ ,” *Theory of Computing*, vol. 19, 7:1–7:51, 2023. DOI: 10.4086/toc.2023.v019a007.
- [42] Yuval Filmus, Massimo Lauria, Mladen Mikša, Jakob Nordström, and Marc Vinyals, “Towards an understanding of Polynomial Calculus: New separations and lower bounds,” *Theory of Computing*, vol. 21, no. 4, pp. 1–48, 2023.
- [43] Yotam Dikstein, Irit Dinur, Yuval Filmus, and Prahladh Harsha, “Boolean function analysis on high-dimensional expanders,” *Combinatorica*, 2024. DOI: 10.1007/s00493-024-00084-5.
- [44] Yuval Filmus, Guy Kindler, Noam Lifshitz, and Dor Minzer, “Hypercontractivity on the symmetric group,” *Forum of Mathematics, Sigma*, e6, 2024.
- [45] Yuval Filmus, Yuval Ishai, Avi Kaplan, and Guy Kindler, “Limits of preprocessing,” *Computational Complexity*, vol. 33, 5:1–5:57, 2024.
- [46] Yuval Filmus and Idan Mehal, “Optimal sets of questions for Twenty Questions,” *SIAM J. Discrete Math.*, vol. 38, no. 1, pp. 412–452, 2024.
- [47] Irit Dinur, Yuval Filmus, and Prahladh Harsha, “Sparse juntas on the biased hypercube,” *TheoretCS*, vol. 3, 2024. DOI: 10.46298/theoretics.24.18.
- [48] John Bamberg, Yuval Filmus, Ferdinand Ihringer, and Sascha Kurz, “Affine vector space partitions,” *Designs, Codes and Cryptography*, vol. 93, pp. 331–357, 2025.
- [49] Yaroslav Alekseev, Yuval Filmus, and Alexander Smal, “Lifting dichotomies,” *Computational Complexity*, vol. 34, 18:1–18:52, 2025. DOI: 10.1007/s00037-025-00276-5.
- [50] Yuval Filmus, “Aggregation of evaluations without unanimity,” *SIAM Journal on Discrete Mathematics*, 2025+.

- [51] Neta Dafni, Yuval Filmus, Noam Lifshitz, Nathan Lindzey, and Marc Vinyals, “Complexity measures on symmetric group and beyond,” *Combinatorial Theory*, 2025+.
- [52] Yuval Filmus, Steve Hanneke, Idan Mehal, and Shay Moran, “Optimal prediction using expert advice and randomized Littlestone dimension,” *SIAM J. Comput.*, 2025+.

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## Conference Publications

- [53] Allan Borodin, Yuval Filmus, and Joel Oren, “Threshold models for competitive influence in social networks,” in *Proceedings of the 6th Workshop on Internet and Network Economics (WINE 2010)*, 2010, pp. 539–550.
- [54] Yuval Filmus, Toniann Pitassi, and Rahul Santhanam, “Exponential lower bounds for  $AC^0$ -Frege imply superpolynomial Frege lower bounds,” in *Proceedings of the 38th International Colloquium on Automata, Languages and Programming (ICALP 2011)*, 2011, pp. 618–629.
- [55] Yuval Filmus and Justin Ward, “A tight combinatorial algorithm for submodular maximization subject to a matroid constraint,” in *Proceedings of the 53rd Annual IEEE Symposium on Foundations of Computer Science (FOCS 2012)*, 2012, pp. 659–668.
- [56] Philip Bohannon, Nilesch Dalvi, Yuval Filmus, Nori Jacoby, Sathya Keerthi, and Alok Kirpal, “Automatic web-scale information extraction,” in *Proceedings of the 2012 ACM SIGMOD International Conference on Management of Data*, 2012, pp. 609–612.
- [57] Yuval Filmus and Justin Ward, “Maximum coverage over a matroid,” in *Proceedings of the 29th Symposium on Theoretical Aspects of Computer Science (STACS 2012)*, 2012, pp. 601–612.
- [58] Yuval Filmus, Massimo Lauria, Jakob Nordström, Neil Thapen, and Noga Ron-Zewi, “Space complexity in polynomial calculus,” in *Proceedings of the 27th Annual Conference on Computational Complexity (CCC 2012)*, 2012, pp. 334–344.
- [59] Yuval Filmus, Toniann Pitassi, Robert Robere, and Stephen A. Cook, “Average case lower bounds for monotone switching networks,” in *Proceedings of the 54th Annual Symposium on Foundations of Computer Science (FOCS 2013)*, 2013, pp. 598–607.
- [60] Craig Boutilier, Yuval Filmus, and Joel Oren, “Efficient vote elicitation under candidate uncertainty,” in *Proceedings of the 23rd International Joint Conference on Artificial Intelligence (IJCAI 2013)*, 2013, pp. 309–316.
- [61] Yuval Filmus, Massimo Lauria, Mladen Mikša, Jakob Nordström, and Marc Vinyals, “Towards an understanding of Polynomial Calculus: New separations and lower bounds,” in *Automata, Languages, and Programming*, ser. Lecture Notes in Computer Science, vol. 7965, Springer Berlin Heidelberg, 2013, pp. 437–448.
- [62] Yuval Filmus and Joel Oren, “Efficient voting via the top- $k$  elicitation scheme: A probabilistic approach,” in *Proceedings of the 15th ACM conference on Economics and Computation (EC 2014)*, 2014, pp. 295–312.
- [63] Yuval Filmus, Massimo Lauria, Mladen Mikša, Jakob Nordström, and Marc Vinyals, “From small space to small width in resolution,” in *Proceedings of the 31st Symposium on Theoretical Aspects of Computer Science (STACS 2014)*, Ernst W. Mayr and Natacha Portier, Eds., ser. Leibniz International Proceedings in Informatics (LIPIcs), vol. 25, Schloss Dagstuhl–Leibniz-Zentrum für Informatik, 2014, pp. 300–311.

- [64] Andris Ambainis, Yuval Filmus, and François Le Gall, “Fast matrix multiplication: Limitations of the Coppersmith–Winograd method,” in *Proceedings of the 47th Annual Symposium on the Theory of Computing (STOC 2015)*, 2015, pp. 585–593.
- [65] Yoram Bachrach, Yuval Filmus, Joel Oren, and Yair Zick, “A characterization of voting power for discrete weight distributions,” in *Proceedings of the 26th International Joint Conference on Artificial Intelligence (IJCAI 2016)*, 2016.
- [66] Yoram Bachrach, Yuval Filmus, Joel Oren, and Yair Zick, “Analyzing power in weighted voting games with super-increasing weights,” in *Proceedings of the 9th International Symposium on Algorithmic Game Theory (SAGT 2016)*, 2016.
- [67] Yuval Filmus and Elchanan Mossel, “Harmonicity and invariance on slices of the Boolean cube,” in *31st Conference on Computational Complexity (CCC 2016)*, Ran Raz, Ed., ser. Leibniz International Proceedings in Informatics (LIPIcs), vol. 50, Dagstuhl, Germany: Schloss Dagstuhl–Leibniz-Zentrum fuer Informatik, 2016, 16:1–16:13, ISBN: 978-3-95977-008-8.
- [68] Yuval Filmus, Guy Kindler, Elchanan Mossel, and Karl Wimmer, “Invariance principle on the slice,” in *31st Conference on Computational Complexity (CCC 2016)*, Ran Raz, Ed., ser. Leibniz International Proceedings in Informatics (LIPIcs), vol. 50, Dagstuhl, Germany: Schloss Dagstuhl–Leibniz-Zentrum fuer Informatik, 2016, 15:1–15:10, ISBN: 978-3-95977-008-8.
- [69] Yuval Filmus, Pavel Hrubeš, and Massimo Lauria, “Semantic versus syntactic cutting planes,” in *33rd Symposium on Theoretical Aspects of Computer Science (STACS 2016)*, Nicolas Ollinger and Heribert Vollmer, Eds., ser. Leibniz International Proceedings in Informatics (LIPIcs), vol. 47, Dagstuhl, Germany: Schloss Dagstuhl–Leibniz-Zentrum fuer Informatik, 2016, 35:1–35:13, ISBN: 978-3-95977-001-9.
- [70] Yuval Filmus, Hamed Hatami, Yaqiao Li, and Suzin You, “Information complexity of the AND function in the two-party and multi-party settings,” in *23rd annual international computing and combinatorics conference (COCOON’17)*, 2017.
- [71] Yuval Dagan, Yuval Filmus, Hamed Hatami, and Yaqiao Li, “Trading information complexity for error,” in *32nd Conference on Computational Complexity (CCC 2017)*, 2017.
- [72] Yuval Dagan, Yuval Filmus, Ariel Gabizon, and Shay Moran, “Twenty (simple) questions,” in *49th ACM Symposium on Theory of Computing (STOC 2017)*, 2017.
- [73] Yotam Dikstein, Irit Dinur, Yuval Filmus, and Prahladh Harsha, “Boolean function analysis on high-dimensional expanders,” in *22nd International Conference on Randomization and Computation (RANDOM’2018)*, 2018.
- [74] Yuval Filmus, Ryan O’Donnell, and Xinyu Wu, “A log-Sobolev inequality for the multislice, with applications,” in *Proceedings of the 10th Innovations in Theoretical Computer Science conference (ITCS’19)*, 2019.
- [75] Irit Dinur, Yuval Filmus, and Prahladh Harsha, “Analyzing boolean functions on the biased hypercube via higher-dimensional agreement tests,” in *ACM-SIAM Symposium on Discrete Algorithms (SODA19)*, 2019.
- [76] Yuval Filmus, Lianna Hambardzumyan, Hamed Hatami, Pooya Hatami, and David Zuckerman, “Biasing Boolean functions and collective coin-flipping protocols over arbitrary product distributions,” in *46th International Colloquium on Automata, Languages and Programming (ICALP’19)*, 2019.

- [77] Niv Buchbinder, Moran Feldman, Yuval Filmus, and Mohit Garg, “Online submodular maximization: Beating  $1/2$  made simple,” in *20th Conference on Integer Programming and Combinatorial Optimization (IPCO’19)*, 2019.
- [78] Arkadev Chattopadhyay, Yuval Filmus, Sajin Koroth, Or Meir, and Toniann Pitassi, “Query-to-communication lifting for BPP using inner product,” in *46th International Colloquium on Automata, Languages and Programming (ICALP’19)*, 2019.
- [79] Yuval Filmus, Noam Lifshitz, Dor Minzer, and Elchanan Mossel, “AND testing and robust judgement aggregation,” in *52nd ACM Symposium on Theory of Computing (STOC’20)*, 2020.
- [80] Yuval Filmus, Yuval Ishai, Avi Kaplan, and Guy Kindler, “Limits of Preprocessing,” in *35th Computational Complexity Conference (CCC 2020)*, Shubhangi Saraf, Ed., ser. Leibniz International Proceedings in Informatics (LIPIcs), vol. 169, Dagstuhl, Germany: Schloss Dagstuhl–Leibniz-Zentrum für Informatik, 2020, 17:1–17:22, ISBN: 978-3-95977-156-6. DOI: 10.4230/LIPIcs.CCC.2020.17. [Online]. Available: <https://drops.dagstuhl.de/opus/volltexte/2020/12569>.
- [81] Yuval Filmus, Meena Mahajan, Gaurav Sood, and Marc Vinyals, “MaxSAT resolution and subcube sums,” in *23rd International Conference on Theory and Applications of Satisfiability Testing (SAT’20)*, 2020.
- [82] Neta Dafni, Yuval Filmus, Noam Lifshitz, Nathan Lindzey, and Marc Vinyals, “Complexity measures on symmetric group and beyond,” in *12th Innovations in Theoretical Computer Science Conference (ITCS 2021)*, 2021.
- [83] Irit Dinur, Yuval Filmus, Prahladh Harsha, and Madhur Tulsiani, “Explicit and structured sum of squares lower bounds from high-dimensional expanders,” in *12th Innovations in Theoretical Computer Science Conference (ITCS 2021)*, 2021.
- [84] Ofir Gordon, Yuval Filmus, and Oren Salzman, “Revisiting the complexity analysis of conflict-based search: New computational techniques and improved bounds,” in *SOCS’21*, 2021.
- [85] Yuval Filmus, Or Meir, and Avishay Tal, “Shrinkage under random projections and cubic formula lower bounds for  $AC^0$ ,” in *12th Innovations in Theoretical Computer Science Conference (ITCS 2021)*, 2021.
- [86] Yuval Dagan, Yuval Filmus Daniel Kane, and Shay Moran, “The entropy of lies: Playing twenty questions with a liar,” in *12th Innovations in Theoretical Computer Science Conference (ITCS 2021)*, 2021.
- [87] Yuval Filmus, Idan Mehalel, and Shay Moran, “A resilient distributed boosting algorithm,” in *ICML’22*, 2022.
- [88] Gilad Chase, Yuval Filmus, Dor Minzer, Elchanan Mossel, and Nitin Saurabh, “Approximate polymorphisms,” in *STOC’22*, 2022.
- [89] Andrej Bogdanov, Krishnamoorthy Dinesh, Yuval Filmus, Yuval Ishai, Avi Kaplan, and Akshayaram Srinivasan, “Bounded indistinguishability for simple sources,” in *13th Innovations in Theoretical Computer Science (ITCS 2022)*, 2022.

- [90] Yuval Filmus and Nathan Lindzey, “Harmonic polynomials on perfect matchings,” in *The 34th international conference on. Formal Power Series and Algebraic Combinatorics (FPSAC’22)*, 2022.
- [91] Andrej Bogdanov, Krishnamoorthy Dinesh, Yuval Filmus, Yuval Ishai, Avi Kaplan, and Sruthi Sekar, “Bounded simultaneous messages,” in *FSTTCS’23*, 2023.
- [92] Yuval Filmus, Steve Hanneke, Idan Mehal, and Shay Moran, “Optimal prediction using expert advice and randomized Littlestone dimension,” in *Conference on Learning Theory (COLT)*, 2023.
- [93] Yuval Filmus, Itai Leigh, Artur Riazanov, and Dmitry Sokolov, “Sampling and certifying symmetric functions,” in *Approximation, Randomization, and Combinatorial Optimization. Algorithms and Techniques (APPROX/RANDOM 2023)*, Nicole Megow and Adam Smith, Eds., ser. Leibniz International Proceedings in Informatics (LIPIcs), vol. 275, Dagstuhl, Germany: Schloss Dagstuhl – Leibniz-Zentrum für Informatik, 2023, 36:1–36:21, ISBN: 978-3-95977-296-9. DOI: 10.4230/LIPIcs.APPROX/RANDOM.2023.36. [Online]. Available: <https://drops.dagstuhl.de/opus/volltexte/2023/18861>.
- [94] Yuval Filmus, Hamed Hatami, Kaave Hosseini, and Esty Kelman, “A generalization of the Kelley–Meka theorem to binary systems of linear forms,” in *65th IEEE Symposium on Foundations of Computer Science (FOCS) 2024*, 2024.
- [95] Yuval Filmus, Steve Hanneke, Idan Mehal, and Shay Moran, “Bandit-feedback online multiclass classification: Variants and tradeoffs,” in *NeurIPS 2024*, 2024.
- [96] Yaroslav Alekseev, Yuval Filmus, and Alexander Smal, “Lifting dichotomies,” in *39th Computational Complexity Conference (CCC 2024)*, Rahul Santhanam, Ed., ser. Leibniz International Proceedings in Informatics (LIPIcs), vol. 300, Dagstuhl, Germany: Schloss Dagstuhl – Leibniz-Zentrum für Informatik, 2024, 9:1–9:18, ISBN: 978-3-95977-331-7. DOI: 10.4230/LIPIcs.CCC.2024.9. [Online]. Available: <https://drops.dagstuhl.de/entities/document/10.4230/LIPIcs.CCC.2024.9>.
- [97] Yuval Filmus, Edward A. Hirsch, Artur Riazanov, Alexander Smal, and Marc Vinyals, “Proving Unsatisfiability with Hitting Formulas,” in *15th Innovations in Theoretical Computer Science Conference (ITCS 2024)*, Venkatesan Guruswami, Ed., ser. Leibniz International Proceedings in Informatics (LIPIcs), vol. 287, Dagstuhl, Germany: Schloss Dagstuhl – Leibniz-Zentrum für Informatik, 2024, 48:1–48:20, ISBN: 978-3-95977-309-6. DOI: 10.4230/LIPIcs.ITCS.2024.48. [Online]. Available: <https://drops.dagstuhl.de/entities/document/10.4230/LIPIcs.ITCS.2024.48>.
- [98] Yaroslav Alekseev, Yuval Filmus, Ian Mertz, Alexander Smal, and Antoine Vinciguerra, “Catalytic computing and register programs beyond log depth,” in *Mathematical Foundations of Computer Science (MFCS’25)*, 2025.
- [99] Yuval Filmus, Eldar Fischer, and Johann A. Makowski, “Effective MC-finiteness,” in *Summit280*, 2025.
- [100] Yuval Filmus, Roy Schwartz, and Alexander V. Smal, “Separating coverage and submodular: Maximization subject to a cardinality constraint,” in *IPCO 2025*, 2025.