R E S U M E

November-2022

1. PERSONAL DETAILS

Full Name: **Shay Moran**

Identity No: 039944111

Date of birth: 13/3/1983
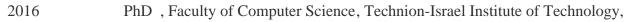
Place of birth: Haifa

Marital status: married

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2. ACADEMIC DEGREES

2016	PhD , Faculty of Computer Science, Technion-Israel Institute of Technology, Haifa, Israel
2012	MSc (cum laude) , Faculty of Computer Science, International Max-Planck Research School in Saarland University , Germany
2010	BSc (cum laude) , Faculty of Computer Science, Technion-Israel Institute of Technology, Haifa, Israel
2010	BSc (cum laude) , Faculty of Mathematics, Technion-Israel Institute of Technology, Haifa, Israel

3. ACADEMIC APPOINTMENTS

2022 - Present	Senior Lecturer, Faculty of Computer Science, Technion-Israel Institute of Technology, Haifa
2020 - Present	Senior Lecturer, Faculty of Mathematics, Technion-Israel Institute of Technology, Haifa, Israel
2018 - 2019	Postdoctoral fellow, Faculty of Computer Science, Princeton Univsersity ,USA

2017 - 2017	Postdoctoral fellow, Simons Institute for the Theory of Computing, Simons Institute for the Theory of Computing, Berkeley, USA
2017 - 2018	Postdoctoral fellow, Faculty of Mathematics, Institute for Advanced Study, Princeton, USA
2016 - 2017	Postdoctoral fellow, Faculty of Computer Science, Univsersity of California, San Diego, USA
2013 - 2017	Visiting Scientist, Faculty of Computer Science, Max Planck Institute in Saarbrucken, Germany

4. PROFESSIONAL EXPERIENCE (OUTSIDE ACADEMIA)

2021 - Present	Visiting Faculty, Google Research, Tel Aviv
2019 - 2020	Visiting Scientist, Google Brain, Princeton
2018 - 2018	Visiting Scientist, Google Research, Tel Aviv
2016 - 2016	Research Intern, Microsoft Research, Herzliya

5. RESEARCH INTERESTS (BRIEFLY)

• Theoretical Computer Science

• Machine Learning Theory

• Combinatorics

6. TEACHING EXPERIENCE

2010 - 2010	Introduction to Computer Science, main teacher, Undergraduate, Technion-Israel Institute of Technology, Haifa
2010 - 2011	Programming Languages, main teacher, Undergraduate, Technion-Israel Institute of Technology, Haifa
2011 - 2012	Algorithms and Data Structures, main teacher, Graduate, Saarland University
2012 - 2012	Volunteered as a math and physics teacher at a boarding school, main teacher, Kenya
2013 - 2014	Logic and Set Theory, main teacher, Undergraduate, Technion-Israel Institute of Technology, Haifa
2014 - 2014	Analytical Methods in Combinatorics, main teacher, Graduate, Technion-Israel Institute of Technology, Haifa
2014 - 2015	Probability Theory, main teacher, Undergraduate, Technion-Israel Institute of Technology, Haifa
2015 - 2015	Communication Complexity, main teacher, Graduate, Technion-Israel Institute of Technology, Haifa

2016 - 2017	Statistical Learning and Combinatorics , main teacher , Graduate , University of California, San Diego
2020 - 2021	Set Theory , main teacher , Undergraduate , Technion-Israel Institute of Technology, Haifa
2021 - 2021	Combinatorial Aspects in Machine Learning , main teacher , Graduate , Technion-Israel Institute of Technology, Haifa
2021 - 2022	Online Learning Theory , teacher in-charge , Graduate , Technion-Israel Institute of Technology, Haifa
2022 - 2022	Calculus 1 , Undergraduate , Technion-Israel Institute of Technology, Haifa
2022 - 2022	Introduction to Learning Theory , Graduate , Technion-Israel Institute of Technology, Haifa

7. ACTIVITIES

8. DEPARTMENTAL ACTIVITIES

2020 - 2021	Council Secretary , Technion-Israel Institute of Technology, Haifa
2020 - Present	Grossman Math Olympiad Organizer , Technion-Israel Institute of Technology, Haifa
2020 - Present	Representative at the Department of Computer Science , Technion-Israel Institute of Technology, Haifa

9. PUBLIC PROFESSIONAL ACTIVITIES

2014 - Present	Reviewer for conferences: Reviewer for conferences: ALT, COLT, CCC, FOCS, ICML, IPDPS, MFCS, NeurIPS, SOCG, SODA, STOC, TOCT, UAI ,
2014 - Present	Reviewer for journals: CC, DCG, EJC, JACM, JCSS, JMLR, SIDMA, TCS ,
2017 - Present	Reviewer for Israel Science Foundation ,
2018 - Present	Program Committee: ESA, ALT, COLT , STOC, FOCS, NeurIPS ,
2022 - 2023	Advisor for the United States - Israel Binational Science Foundation

10. MEMBERSHIP IN PROFESSIONAL SOCIETIES

11. FELLOWSHIPS, AWARDS AND HONORS

2012	Honors Degree , Saarland University
2017	Final award for outstanding thesis in the field of Machine Learning. (Including a monetary reward of 30,000 NIS.) , Final LTD
2020	Best Paper Award at the 33rd Annual Conference on Learning Theory (COLT 2020) , Association for Computational Learning

2020	Best Paper Award at the 61st Annual IEEE Symposium on Foundations of Computer Science (FOCS 2020) , IEEE Computer Society
2020	Azrieli Faculty Fellowship , Azrieli Foundation
2021	Robert J. Shillman Fellow , Technion-Israel Institute of Technology, Haifa
2021	Best Paper Award Runner-up at the 33rd Annual Conference on Learning Theory (COLT 2021)
2022	Cooper Award for Excellence in Research , Technion-Israel Institute of Technology, Haifa
2022	Excellent Lecturer , Mathematics , Technion-Israel Institute of Technology, Haifa

12. GRADUATE STUDENTS

Completed PhD theses

Completed MSc Theses

PhD Theses in Progress

Idan Mehalel , Theoretical Machine Learning ,(Yuval Filmus and **Shay Moran**)

MSc Theses in Progress

Hilla Schefler , Theoretical Machine Learning ,(**Shay Moran**)

Iska Tsubari , Theoretical Machine Learning ,(**Shay Moran**)

13. SPONSORED LONG-TERM VISITORS AND POST-DOCTORAL ASSOCIATES

Alexander Gutterman, Jonathan Shafer

14. RESEARCH GRANTS

Competitive

2020 - 2023	Azrieli Foundation, Learnability, Differential Privacy, and Stability, 201000 USD , **Shay Moran** (PI)
2020 - 2024	Israel Science Foundation, Combinatorial Methods in Machine Learning, 1000000 NIS , **Shay Moran** (PI)
2020 - 2024	US - Israel Binational Science Foundation, Inference dimension - bridging interactive learning, complexity, and algorithm design, 116000 USD , **Shay Moran** (PI) , Prof. Shachar Lovett (PI)

| 2022 - 2026 | VATAT, Towards the Next Generation of Deep Learning Algorithms: Adaptive, Fast & Secure, 1741000 NIS, **Shay Moran** (CO), Prof. Yuval Emek, Prof. Dan Gerber, Prof. Kfir Levy, Prof. Shoham Sabach, Prof. Assaf Schuster, Prof. Daniel Soudry (CO) |
| 2022 - 2027 | ERC, Modern Challenges in Generalization Theory, 1433750 EUR, **Shay Moran** (PI) |

Industrial and other sources

15. PUBLICATIONS

15.1 Theses

Shattering-extremal systems (2012).
Master thesis.
Advisor: Ami Litman.
Saarland university, Germany.

Generalization and simplification in machine learning (2016).
Ph.D. Thesis.
Advisors: Amir Shpilka and Amir Yehudayoff
Technion.

15.2 Refereed papers in professional journals

Stijn Cambie, Bogdan Chornomaz, Zeev Dvir, Yuval Filmus, and **Shay Moran**. "A Sauer-Shelah-Perles Lemma for Lattices." In The Electronic Journal of Combinatorics (EJC), 2020.

Elementary Derivations of the Euclidean Hurwitz Algebras.
Tomer Moran, **Shay Moran**, and Shlomo Moran.
American Mathematical Monthly (AMM) 2021.
Shay Moran and Amir Yehudayoff. "On weak epsilon-nets and the Radon number." Discrete & Computational Geometry (DCG) 2020

Shai Ben-David, Pavel Hrubes, **Shay Moran**, Amir Shpilka, Amir Yehudayoff. "Learnability can be undecidable." In Nature, Machine Intelligence, 2019.

Daniel Kane, Shachar Lovett, and **Shay Moran**. "Near-optimal linear decision trees for k-SUM and related problems". In Journal of the Association for Computing Machinery (JACM), 2019.

Zeev Dvir and **Shay Moran** "A Sauer-Shelah-Perles Lemma for Sumsets." In The Electronic

Journal of Combinatorics (EJC), 2018.

Noga Alon, **Shay Moran**, and Amir Yehudayoff. "Sign rank versus VC dimension." Special issue for the 150th anniversary of Sbornik: Mathe- matics.

Shay Moran, Amir Shpilka, Avi Wigderson, and Amir Yehudayoff. "Teaching and compressing for low VC-dimension." In "A Journey Through Discrete Mathematics: A Tribute to Jiri Matousek".

Shay Moran and Amir Yehudayoff. "Sample compression for VC classes." In Journal of the Association for Computing Machinery (JACM), 2016.

Benjamin Doerr, Carola Doerr, **Shay Moran** and Shlomo Moran. "Simple and optimal randomized fault-tolerant rumor spreading." In Distributed Computing, 2016.

Gillat Kol, **Shay Moran**, Amir Shpilka, and Amir Yehudayoff. "Direct sum fails for zero error average communication." In Algorithmica, 2016.

Shay Moran and Amir Yehudayoff. "A note on average-case sorting." In Order, 2015.

Laszlo Kozma and **Shay Moran**. "Shattering, Graph Orientations, and Connectivity." In The Electronic Journal of Combinatorics (EJC), 2013.

Accepted (or in press) papers

Noga Alon, Mark Bun, Roi Livni, Maryanthe Malliaris, and **Shay Moran**.
"Private and Online Learnability are Equivalent."
Journal of the ACM, 2022

Submitted papers
Review papers
15.3 Books

Monographs and textbooks
Edited Books

15.4 Book chapters
15.5 Refereed papers in conference proceedings

Steve Hanneke, Amin Karbasi, Mohammad Mahmoody, Idan Mehalel, and **Shay Moran**. "On Optimal Learning Under Targeted Data Poisoning".
In NeurIPS 2022 (Oral Presentation).

Steve Hanneke, Amin Karbasi, **Shay Moran**, and Grigoris Velegkas. "Universal Rates for Interactive Learning".
In NeurIPS 2022 (Oral Presentation).

Ron Amit, Baruch Epstein, Ron Meir, and **Shay Moran**. "Integral Probability Metrics PAC-Bayes Bounds".
In NeurIPS 2022.

Nataly Brukhim, Daniel Carmon, Irit Dinur, **Shay Moran**, and Amir Yehudayoff. "A Characterization of Multiclass Learnability".
In FOCS 2022 (invited to FOCS special issue of SICOMP).

Olivier Bousquet, Amit Daniely, Haim Kaplan, Yishay Mansour, **Shay Moran**, and Uri Stemmer. "Monotone Learning". In COLT 2022.

Yuval Filmus, Idan Mehalel, and **Shay Moran**. "A Resilient Distributed Boosting Algorithm." In ICML 2022.

Mahdi Haghifam, Gintare Karolina Dzuigaite, **Shay Moran**, and Daniel M. Roy. "Understanding Generalization via Leave-One-Out Conditional Mutual Information". In ISIT 2022.

Gal Elidan, Amir Globerson, **Shay Moran**, and Gal Yona. "Active Learning with Label Comparisons".
In UAI 2022.

Kunal Dutta, Arijit Ghosh, and **Shay Moran**. "Uniform Brackets, Containers, and Combinatorial Macbeath Regions".
In ITCS 2022.

Mahdi Haghifam, Gintare Karolina Dzuigaite, **Shay Moran**, and Daniel M. Roy. "Towards a Unified Information-Theoretic Framework for Generalization." In NeurIPS 2021. (Spotlight Presentation)

Nataly Brukhim, Elad Hazan, **Shay Moran**, Indraneel Mukherjee, and Robert E. Schapire. "Multiclass Boosting and the Cost of Weak Learning."
In NeurIPS 2021.

Noga Alon, Steve Hanneke, Ron Holzman, and **Shay Moran**. "A Theory of PAC Learnability of

Partial Concept Classes." In FOCS 2021.

Olivier Bousquet, Mark Braverman, Klim Efremenko, Gillat Kol, and **Shay Moran**. "Statistically Near-Optimal Hypothesis Selection." In FOCS 2021.

Steve Hanneke, Roi Livni, and **Shay Moran**. "Online Learning with Simple Predictors and a Combinatorial Characterization of Minimax in 0/1 Games." In COLT 2021. (Best Paper Runner-up).

Mark Braverman, Gillat Kol, **Shay Moran**, and Raghuvansh R. Saxena. "Convex Set Disjointness, Distributed Learning of Halfspaces, and LP Feasibility." In COLT 2021

Olivier Bousquet, Steve Hanneke, **Shay Moran**, Ramon van Handel, and Amir Yehudayoff. "A Theory of Universal Learning." In STOC 2021.

Noga Alon, Alon Gonen, Elad Hazan, and **Shay Moran** "Boosting Simple Learners." In STOC 2021.

Noga Alon, Omri Ben-Eliezer, Yuval Dagan, **Shay Moran**, Moni Naor, and Ey- lon Yogev "Adversarial Laws of Large Numbers and Optimal Regret in Online Classification." In STOC 2021.

Yuval Dagan, Yuval Filmus, Daniel Kane, and **Shay Moran**. "The entropy of lies: playing twenty questions with a liar". In ITCS 2021.

Raef Bassily, **Shay Moran**, and Anupama Nandi. "Learning from Mixtures of Private and Public Populations." In NeurIPS 2020.

Roi Livni and **Shay Moran**. "A Limitation of the PAC-Bayes Framework." In NeurIPS 2020.

Nataly Brukhim, Xinyi Chen, Elad Hazan, and **Shay Moran**. "Online Agnostic Boosting via Regret Minimization." In NeurIPS 2020.

Olivier Bousquet, Roi Livni, and **Shay Moran**. "Synthetic Data Generators – Sequential and Private." In NeurIPS 2020.

Mark Bun, Roi Livni, and **Shay Moran**. "An Equivalence Between Private Classification and Online Prediction." In FOCS 2020.
(Best Paper Award. Invited to a FOCS special issue of J. ACM. Invited talk at TCS+ 2020. Plenary presentation at the "Theory and Practice of Differential Privacy 2020" workshop.)

Raef Bassily, Albert Cheu, **Shay Moran**, Alexander Nikolov, Jonathan Ullman, and Zhiwey Steven Wu. "Private Query Release Assisted by Public Data." In ICML 2020. (Plenary presentation at the

"Theory and Practice of Differential Privacy 2020" workshop.)

Olivier Bousquet, Steve Hanneke, **Shay Moran**, and Nikita Zhivotovskiy. "Proper Learning, Helly Number, and an Optimal SVM Bound" In COLT 2020. (Best Paper Award. Invited to Journal of Mathematical Statistics and Learning.)

Noga Alon, Amos Beimel, **Shay Moran**, and Uri Stemmer. "Closure Properties for Private Classification and Online Prediction." In COLT 2020 and TPDP 2020.

Shay Moran, Ido Nachum, Itai Panasoff, and Amir Yehudayoff. "On the Percep- tron's Compression." In CiE 2020.

Akshay Balsubramani, Sanjoy Dasgupta, Yoav Freund, and **Shay Moran**. "An Adaptive Nearest Neighbor Rule for Classification". In NeurIPS 2019. (spotlight presentation: about 2.5% of all submissions).

Alon Gonen, Elad Hazan, and **Shay Moran**. "Private Learning implies Online Learning: An Efficient Reduction". In NeurIPS 2019. (Spotlight Presentation: about 2.5% of all submissions).

Alon Cohen, Avinatan Hassidim, Haim Kaplan, Yishay Mansour, and **Shay Moran**. "Learning to Screen". In NeurIPS 2019.

Noga Alon, Raef Bassily, and **Shay Moran**. "Limits of Private Learning with Access to Public Data". In NeurIPS 2019.

Olivier Bousquet, Daniel Kane, and **Shay Moran**. "The optimal approximation factor in density estimation". In COLT 2019.

Amos Beimel, **Shay Moran**, Kobbi Nissim, Uri Stemmer. "Private Center Points and Learning of Halfspaces". In COLT 2019.

Daniel Kane, Roi Livni, **Shay Moran**, and Amir Yehudayoff. "On communication complexity of classification problems." In COLT 2019.

Jeremie Chalopin, Victor Chepoi, **Shay Moran**, and Manfred K. Warmuth. "Unlabeled sample compression schemes and corner peelings for ample and maximum classes". In ICALP 2019.

Noga Alon, Roi Livni, Maryanthe Malliaris, and **Shay Moran**. "Private PAC learning implies finite Littlestone dimension." In STOC 2019.
(Plenary presentation at the "Theory and Practice of Differential Privacy 2019" workshop.)

Shay Moran and Amir Yehudayoff. "On weak epsilon-nets and the Radon number." In SoCG 2019.

Daniel Kane, Shachar Lovett, and **Shay Moran**. "Generalized comparison trees for point-location problems". In ICALP 2018.

Daniel Kane, Shachar Lovett, and **Shay Moran**. "Near-optimal linear decision trees for k-SUM and related problems". In STOC 2018.
(Invited to a STOC special issue of SICOMP (declined in favor of J. ACM). Invited talks at TCS+ 2018 and HALG 2019.)

Moshe Babaioff, Yannai A. Gonczarowski, Yishay Mansour, and **Shay Moran**. "Are Two (Samples) Really Better Than One? On the Non-Asymptotic Perfor- mance of Empirical Revenue Maximization", In EC 2018

Raef Bassily, **Shay Moran**, Ido Nachum, Jonathan Shafer, and Amir Yehudayoff. "Learners that Leak Little Information". In ALT 2018.

Noga Alon, Moshe Babaioff, Yannai A. Gonczarowski, Yishay Mansour, **Shay Moran**, and Amir Yehudayoff. "Submultiplicative Glivenko-Cantelli and Uniform Convergence of Revenues", In NIPS 2017. (Spotlight presentation: about 3.5% of all submissions).

Daniel Kane, Shachar Lovett, **Shay Moran**, and Jiapeng Zhang. Active classification with comparison queries. In FOCS 2017.

Yuval Dagan, Ariel Gabizon, Yuval Filmus, and **Shay Moran**. "Twenty (simple) questions". In STOC 2017. Invited talk at HALG 2018 .

Ofir David, **Shay Moran**, and Amir Yehudayoff. "On statistical learning via the lens of compression" In NIPS 2016. (Full oral presentation: about 2% of all submissions.)

Noga Alon, **Shay Moran**, and Amir Yehudayoff. "Sign rank versus VC dimension." In COLT 2016.

Shay Moran and Manfred K. Warmuth. "Labeled compression schemes for extremal classes." In ALT 2016.

Shay Moran, Makrand Sinha and Amir Yehudayoff. "Fooling Pairs in Random- ized Communication Complexity." In SIROCCO 2016.

Shay Moran and Cyrus Rashtchian. "Shattered Sets and the Hilbert Function." In MFCS 2016.

Karl Bringmann, La ?szl ?o Kozma, **Shay Moran**, N.S. Narayanaswamy. "Hitting Set in hypergraphs of low VC-dimension." In ESA 2016.

Shay Moran, Amir Shpilka, Avi Wigderson, and Amir Yehudayoff. "Teaching and compressing for low VC-dimension." In FOCS 2015. The conference version combines two separate papers. One with the same authors titled "Teaching and compressing for low VC-dimension." and one with the first and last authors titled "Sample compression for VC classes.". Invited to a FOCS special issue of SICOMP (declined in favor of J. ACM).

Balthazar Bauer, **Shay Moran**, and Amir Yehudayoff. "Internal compression of protocols to entropy." In RANDOM 2015.

Friedrich Eisenbrand, **Shay Moran**, Rom Pinchasi, and Martin Skutella. "Node- Balancing by Edge-Increments." In ESA 2015.

Gillat Kol, **Shay Moran**, Amir Shpilka, and Amir Yehudayoff. "Direct sum fails for zero error average communication." In ITCS 2014. Invited to a special issue of Algorithmica.

Gillat Kol, **Shay Moran**, Amir Shpilka, and Amir Yehudayoff. "Approximate Nonnegative Rank is Equivalent to the Smooth Rectangle Bound." In ICALP 2014.

15.6 Patents (granted)

15.7 Research reports and other publications

16. CONFERENCES

16.1 Plenary, keynote or invited talks

International

1. **Shay Moran** and Amir Yehudayoff, Sample compression for VC classes, Methods of Discrete Structures (a joint seminar to the TU, FU, and HU universities in Berlin), Germany, 2016. (Invited Talk)

2. Ofir David, **Shay Moran**, and Amir Yehudayoff, On statistical learning via the lens of compression, High Energy Physics - Artificial Intelligence online seminar, USA, 2018. (Invited Talk)

3. **Shay Moran**, TCS+ online seminar, On the expressiveness of comparison queries, USA, 2018. (Invited Talk)

4. **Shay Moran**, Data Science and Mathematics Workshop, Turing Institute, London, On the expressiveness of comparison queries, United Kingdom, 2019. (Invited Talk)

5. **Shay Moran**, On the Expressiveness of Comparison Queries, Machine Learning and Combinatorics Workshop, Israel, 2020. (Invited Talk)

6. **Shay Moran**, Modern Challenges in Learning Theory, EPFL Summer Research Institute 2022 Learning: Optimization and Stochastics, Switzerland, 2022. (Invited Talk)

7. **Shay Moran**, Modern Challenges in Learning Theory, SIAM Conference on Discrete Mathematics, USA, 2022. (Plenary)

National

16.2 Contributed Talks and Posters

International Oral

1. **Shay Moran**, Amir Shpilka, Avi Wigderson, and Amir Yehudayoff, Teaching and compressing for low VC-dimension, FOCS 2015, USA. 10-2015 .

2. Ofir David, **Shay Moran**, and Amir Yehudayoff, On statistical learning via the lens of compression, NIPS 2016, Spain. 12-2016 .

3. Noga Alon, Moshe Babaioff, Yannai A. Gonczarowski, Yishay Mansour, **Shay Moran**, and Amir Yehudayoff, Submultiplicative Glivenko-Cantelli and Uniform Convergence of Revenues, NIPS 2017, Israel. 12-2017 .

4. Yuval Dagan, Ariel Gabizon, Yuval Filmus, and **Shay Moran**, Twenty (simple) questions, HALG 2018, Netherlands. 06-2018 .

5. Noga Alon, Roi Livni, Maryanthe Malliaris, and **Shay Moran**, Private PAC learning implies finite Littlestone dimension, Theory and Practice of Differential Privacy 2019, Canada. 10-2018 .

6. Daniel Kane, Shachar Lovett, and **Shay Moran**, Near-optimal linear decision trees for k-SUM and related problems, HALG 2019, Denmark. 06-2019 .

7. Alon Gonen, Elad Hazan, and **Shay Moran**, Private Learning implies Online Learning: An Efficient Reduction, NeurIPS 2019, Canada. 12-2019 .

8. Akshay Balsubramani, Sanjoy Dasgupta, Yoav Freund, and **Shay Moran**, An Adaptive Nearest Neighbor Rule for Classification, NeurIPS 2019, Canada. 12-2019 .

9. Raef Bassily, Albert Cheu, **Shay Moran**, Alexander Nikolov, Jonathan Ullman, and Zhiwey Steven Wu, Private Query Release Assisted by Public Data, Theory and Practice of Differential Privacy 2020, USA. 10-2020 .

10. Mark Bun, Roi Livni, and **Shay Moran**, An Equivalence Between Private Classification and Online Prediction, Theory and Practice of Differential Privacy 2020, USA. 10-2020 .

11. Mark Bun, Roi Livni, and **Shay Moran**, An Equivalence Between Private Classification and Online Prediction, FOCS 2020 (Best paper plenary talk), USA. 11-2020 .

12. Olivier Bousquet, Steve Hanneke, **Shay Moran**, and Amir Yehudayoff, A Theory of Universal Learning, HALG 2022, United Kingdom. 06-2022 .

International Poster

1. **Shay Moran** and Amir Yehudayoff, Sample Compression for VC Classes, Information Theory and Applications Workshop, USA. 02-2016 .

2. Ofir David, **Shay Moran**, and Amir Yehudayoff, On statistical learning via the lens of compression, NIPS 2016, Spain. 12-2016 .

3. Noga Alon, Moshe Babaioff, Yannai A. Gonczarowski, Yishay Mansour, **Shay Moran**, and Amir Yehudayoff, Submultiplicative Glivenko-Cantelli and Uniform Convergence of Revenues, NIPS 2017, USA. 12-2017 .

4. Noga Alon, Raef Bassily, and **Shay Moran**, Limits of Private Learning with Access to Public Data, NeurIPS 2019, Canada. 12-2019 .

5. Alon Cohen, Avinatan Hassidim, Haim Kaplan, Yishay Mansour, and **Shay Moran**, Learning to Screen, NeurIPS 2019, Canada. 12-2019 .

6. Alon Gonen, Elad Hazan, and **Shay Moran**, Private Learning implies Online Learning: An Efficient Reduction, NeurIPS 2019, Canada. 12-2019 .

National Oral

National Poster

16.3 Participation in organizing conferences

1. Machine Learning and Combinatorics Workshop, Russian Federation, 10-2020, Moscow Institute of Physics and Technology .

17. NOTES