

Stanford



Omer Reingold

Rajeev Motwani Professor of Computer Science

Bio

ACADEMIC APPOINTMENTS

- Professor, Computer Science

LINKS

- My homepage: <https://omereingold.wordpress.com/>

Teaching

COURSES

2022-23

- Algorithmic Fairness: CS 256 (Win)
- Departmental Lecture Series: CS 300 (Aut)
- Introduction to the Theory of Computation: CS 154 (Aut)
- Playback Theater: CS 83N (Win)

2021-22

- Departmental Lecture Series: CS 300 (Aut)
- Introduction to the Theory of Computation: CS 154 (Aut)
- Playback Theater: CS 83 (Win)
- The Practice of Theory Research: CS 163 (Win)

2020-21

- Introduction to the Theory of Computation: CS 154 (Aut)
- The Practice of Theory Research: CS 163 (Win)

2019-20

- AI Interpretability and Fairness: CS 81SI (Spr)
- Introduction to Automata and Complexity Theory: CS 154 (Aut)
- Playback Theater: CS 83 (Win)
- The Practice of Theory Research: CS 353 (Win)

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Sumegha Garg, Christopher Jung, Inbal Livni Navon

Master's Program Advisor

Myra Deng, Jaehwan Jeong, Alex Moreira, Jamie Song, Jerry Tang, Alex Wang, Luna Yang

Doctoral (Program)

Jabari Hastings, Lunjia Hu, Charlotte Peale, Judy Hanwen Shen

Publications

PUBLICATIONS

- **Learning from Outcomes: Evidence-Based Rankings**
Dwork, C., Kim, M. P., Reingold, O., Rothblum, G. N., Yona, G., IEEE
IEEE COMPUTER SOC.2019: 106–25
- **Tracking and Improving Information in the Service of Fairness**
Garg, S., Kim, M. P., Reingold, O., Assoc Comp Machinery
ASSOC COMPUTING MACHINERY.2019: 809–24
- **Incremental Deterministic Public-Key Encryption** *JOURNAL OF CRYPTOLOGY*
Mironov, I., Pandey, O., Reingold, O., Segev, G.
2018; 31 (1): 134–61
- **Efficient Batch Verification for UP**
Reingold, O., Rothblum, G. N., Rothblum, R. D., Servedio, R. A.
SCHLOSS DAGSTUHL, LEIBNIZ CENTER INFORMATICS.2018
- **Improved Pseudorandomness for Unordered Branching Programs through Local Monotonicity**
Chattopadhyay, E., Hatami, P., Reingold, O., Tal, A., Diakonikolas, Kempe, D., Henzinger, M.
ASSOC COMPUTING MACHINERY.2018: 363–75
- **Fairness Through Computationally-Bounded Awareness**
Kim, M. P., Reingold, O., Rothblum, G. N., Bengio, S., Wallach, H., Larochelle, H., Grauman, K., CesaBianchi, N., Garnett, R.
NEURAL INFORMATION PROCESSING SYSTEMS (NIPS).2018
- **Guilt-Free Data Reuse** *COMMUNICATIONS OF THE ACM*
Dwork, C., Feldman, V., Hardt, M., Pitassi, T., Reingold, O., Roth, A.
2017; 60 (4): 86-93
- **Derandomization Beyond Connectivity: Undirected Laplacian Systems in Nearly Logarithmic Space**
Murtagh, J., Reingold, O., Sidford, A., Vadhan, S., IEEE
IEEE.2017: 801–12
- **FINDING COLLISIONS IN INTERACTIVE PROTOCOLS-TIGHT LOWER BOUNDS ON THE ROUND AND COMMUNICATION COMPLEXITIES OF STATISTICALLY HIDING COMMITMENTS** *SIAM JOURNAL ON COMPUTING*
Haitner, I., Hoch, J. J., Reingold, O., Segev, G.
2015; 44 (1): 193-242
- **BALLS AND BINS: SMALLER HASH FAMILIES AND FASTER EVALUATION** *SIAM JOURNAL ON COMPUTING*
Celis, L. E., Reingold, O., Segev, G., Wieder, U.
2013; 42 (3): 1030-1050
- **Breaking generalized Diffie-Hellman modulo a composite is no easier than factoring** *INFORMATION PROCESSING LETTERS*
Biham, E., Boneh, D., Reingold, O.
1999; 70 (2): 83-87