

Stanford



Jeffrey Ullman

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Bio

BIO

Jeff Ullman is the Stanford W. Ascherman Professor of Engineering (Emeritus) in the Department of Computer Science at Stanford and CEO of Gradiance Corp. He received the B.S. degree from Columbia University in 1963 and the PhD from Princeton in 1966. Prior to his appointment at Stanford in 1979, he was a member of the technical staff of Bell Laboratories from 1966-1969, and on the faculty of Princeton University between 1969 and 1979. From 1990-1994, he was chair of the Stanford Computer Science Department. Ullman was elected to the National Academy of Engineering in 1989, the American Academy of Arts and Sciences in 2012, and has held Guggenheim and Einstein Fellowships. He has received the Sigmod Contributions Award (1996), the ACM Karl V. Karlstrom Outstanding Educator Award (1998), the Knuth Prize (2000), the Sigmod E. F. Codd Innovations award (2006), the IEEE von Neumann medal (2010), and the NEC C&C Foundation Prize (2017). He is the author of 16 books, including books on database systems, compilers, automata theory, and algorithms.

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Computer Science

Teaching

COURSES

2021-22

- Program Analysis and Optimizations: CS 243 (Spr)

2020-21

- Bridging Policy and Tech Through Design: CS 184, PUBLPOL 170 (Spr)

Publications

PUBLICATIONS

- **Scaling Cryptographic Techniques by Exploiting Data Sensitivity at a Public Cloud**
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- **Partitioned Data Security on Outsourced Sensitive and Non-sensitive Data**
Mehrotra, S., Sharma, S., Ullman, J. D., Mishra, A., IEEE
IEEE.2019: 650–61
- **SharesSkew: An algorithm to handle skew for joins in MapReduce** *INFORMATION SYSTEMS*
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2018; 77: 129–50
- **Computing marginals using MapReduce** *JOURNAL OF COMPUTER AND SYSTEM SCIENCES*
Afrati, F. N., Sharma, S., Ullman, J. R., Ullman, J. D.
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- **Efficient and Private Approximations of Distributed Databases Calculations**
Derbeko, P., Dolev, S., Gudes, E., Ullman, J. D., Nie, J. Y., Obradovic, Z., Suzumura, T., Ghosh, R., Nambiar, R., Wang, C., Zang, H., BaezaYates, R., Hu, et al
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- **Parallel Skyline Queries** *THEORY OF COMPUTING SYSTEMS*
Afrati, F. N., Koutris, P., Suciu, D., Ullman, J. D.
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- **Experiments as Research Validation: Have We Gone Too Far?** *COMMUNICATIONS OF THE ACM*
Ullman, J. D.
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- **Fuzzy Joins Using MapReduce** *28th IEEE International Conference on Data Engineering (ICDE)*
Afrati, F. N., Das Sarma, A., Menestrina, D., Parameswaran, A., Ullman, J. D.
IEEE.2012: 498–509
- **Optimizing Multiway Joins in a Map-Reduce Environment** *IEEE TRANSACTIONS ON KNOWLEDGE AND DATA ENGINEERING*
Afrati, F. N., Ullman, J. D.
2011; 23 (9): 1282–1298
- **Cluster Computing, Recursion and Datalog** *1st International Workshop on Datalog Reloaded (Datalog)*
Afrati, F. N., Borkar, V., Carey, M., Polyzotis, N., Ullman, J. D.
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- **Using views to generate efficient evaluation plans for queries** *JOURNAL OF COMPUTER AND SYSTEM SCIENCES*
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- **Generating efficient plans for queries using views** *ACM SIGMOD International Conference on Management of Data*
Afrati, F. N., Li, C., ULLMAN, J. D.
ASSOC COMPUTING MACHINERY.2001: 319–30
- **Minimizing view sets without losing query-answering power** *8th International Conference on Database Theory (ICDT 2001)*
Li, C., Bawa, M., ULLMAN, J. D.
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- **Finding interesting associations without support pruning** *16th International Conference on Data Engineering (ICDE 2000)*
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