Jeffrey Ullman
Stanford Warren Ascherman Professor of Engineering, Emeritus
Computer Science

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

2020-21

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

2019-20

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

2018-19
• Project in Mining Massive Data Sets: CS 341 (Spr)

STANFORD ADVISEES

Orals Chair
Rex Ying

Publications

PUBLICATIONS

• Scaling Cryptographic Techniques by Exploiting Data Sensitivity at a Public Cloud
  Mehrotra, S., Sharma, S., Ullman, J. D., ACM
  ASSOC COMPUTING MACHINERY.2019: 165–67

• Partitioned Data Security on Outsourced Sensitive and Non-sensitive Data
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• SharesSkew: An algorithm to handle skew for joins in MapReduce
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• Computing marginals using MapReduce
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• Experiments as Research Validation: Have We Gone Too Far?
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• Optimizing Multiway Joins in a Map-Reduce Environment  *IEEE TRANSACTIONS ON KNOWLEDGE AND DATA ENGINEERING*
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• 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*
  Afrati, F. N., Li, C., Ullman, J. D.
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• The Lowell database - Research self assessment  *COMMUNICATIONS OF THE ACM*
  2005; 48 (5): 111-118

• Querying websites using compact skeletons  *20th Symposium on Principles of Database Systems*
  Rajaraman, A., Ullman, J. D.
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  Cohen, E., Datar, M., Fujiwara, S., Gionis, A., Indyk, P., Motwani, R., ULLMAN, J. D., Yang, C.
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- **Index selection for OLAP** 13th International Conference on Data Engineering
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- **Representative objects: Concise representations of semistructured, hierarchical data** 13th International Conference on Data Engineering
  Nestorov, S., Ullman, J., Wiener, J., Chawathe, S.
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- **Medemaker: A mediation system based on declarative specifications** 12th IEEE International Conference on Data Engineering
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- **The database approach to knowledge representation** 13th National Conference on Artificial Intelligence (AAAI 96) / 8th Conference on Innovative Applications of Artificial Intelligence (IAAI 96)
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