

Jialin Ding

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EDUCATION	Massachusetts Institute of Technology PhD, Computer Science	2018–Present
	Stanford University Bachelor of Science with Distinction, Electrical Engineering Minor in Economics	2014–2018
PUBLICATIONS	Learning Multi-dimensional Indexes. Vikram Nathan*, Jialin Ding*, Mohammad Alizadeh, Tim Kraska. <i>SIGMOD 2020</i> .	
	LISA: Towards Learned DNA Sequence Search. Darryl Ho, Jialin Ding, Sanchit Misra, Nesime Tatbul, Vikram Nathan, Vasimuddin Md and Tim Kraska. <i>NeurIPS Workshop on Systems for ML 2019. Oral Presentation</i> .	
	Learning Multi-dimensional Indexes. Vikram Nathan*, Jialin Ding*, Mohammad Alizadeh, Tim Kraska. <i>NeurIPS Workshop on ML for Systems 2019. Oral Presentation</i> .	
	SageDB: A Learned Database System. Tim Kraska, Mohammad Alizadeh, Alex Beutel, Ed Chi, Jialin Ding, Ani Kristo, Guillaume Leclerc, Samuel Madden, Hongzi Mao and Vikram Nathan. <i>CIDR 2019</i> .	
	A Machine-compiled Database of Genome-wide Association Studies. Volodymyr Kuleshov, Jialin Ding, Christopher Vo, Braden Hancock, Alexander Ratner, Yang Li, Christopher R, Serafim Batzoglou and Michael Snyder <i>Nature Communications 2019</i> .	
	Moment-Based Quantile Sketches for Efficient High Cardinality Aggregation Queries. Edward Gan, Jialin Ding, Kai Sheng Tai, Vatsal Sharan and Peter Bailis. <i>VLDB 2018</i> .	
	Efficient Mergeable Quantile Sketches using Moments. Edward Gan, Jialin Ding, Peter Bailis. <i>SysML 2018. Extended Abstract</i> .	
	MacroBase: Prioritizing Attention in Fast Data. Firas Abuzaid, Peter Bailis, Jialin Ding, Edward Gan, Samuel Madden, Deepak Narayanan, Kexin Rong and Sahaana Suri. <i>ACM Transactions on Database Systems 2018</i> .	
	A Machine-Compiled Database of Genome-Wide Association Studies. Volodymyr Kuleshov, Jialin Ding, Braden Hancock, Alexander Ratner, Christopher Re, Serafim Batzoglou and Michael Snyder. <i>25th Conference on Intelligent Systems for Molecular Biology (ISMB) 2017. Short Paper</i> .	
INDUSTRY EXPERIENCE	Research Intern, Microsoft Research, Redmond • Implemented and evaluated an updatable learned index structure for range queries.	Summer 2018

Software Engineer Intern, Google

Summer 2016

- Worked on Google Safe Browsing.
- Implemented a MapReduce pipeline to integrate Chrome browser incident data into the evaluation of user downloads.

Software Engineer Intern, Thumbtack

Summer 2015

- Worked on SEO, automatic text generation, and recommendation systems.

**FELLOWSHIPS
AND AWARDS**

- NSF Graduate Research Fellowship Program, Honorable Mention, 2018
- MIT Jacobs Presidential Fellowship, 2018