Benwei Shi

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# EDUCATION

* **University of Utah**, Salt Lake City, UT
  + **Ph.D. Computing** (Dec. 2023)  
    *Small space data structures for data analysis*  
    Committee: Dr. Jeff Phillips (advisor), Dr. Prashant Pandey, Dr. Aditya Bhaskara, Dr. Bei Wang Phillips, Dr. Anna Little
  + **B.S. Computer Science** (May 2018)  
    *Analysing simultaneous iterations*Supervisor: Dr. Jeff Phillips

# Awards/Honors

* Robert Henricks Scholarship, University of Utah, Salt Lake City, UT, 2017
* Jay Lepreau Memorial Scholarship, University of Utah, Salt Lake City, UT, 2017

# Professional Experience

* **University of Utah**, Salt Lake City, UT
  + **Research Assistance** (May 2017 to Dec. 2023)  
    Data summaries and sketches, machine learning, hash table, topological data summaries.

# Conference Publications

[C2] Shi, B., Zhao, Z., Peng, Y., Li, F., & Phillips, J. M.. At-the-time and Back-in-time Persistent Sketches. In *Proceedings of the 2021 International Conference on Management of Data*, 2021.

[C1] Shi, B., & Phillips, J. M.. A Deterministic Streaming Sketch for Ridge Regression. In *Proceedings of The 24th International Conference on Artificial Intelligence and Statistics*, volume 130, 2021.

# TEACHING

* Teaching Assistant, CS 3190 (Fall 2019): Foundations of Data Analysis.  
  Instructor: Jeff Phillips  
  School of Computing, University of Utah.  
  Given lecturer, streaming lecture videos, held weekly office hours, graded assignments and exams.
* Teaching Assistant, CS 6140 (Spring 2020): Data Mining.  
  Instructor: Jeff Phillips  
  School of Computing, University of Utah.  
  Advised project groups, held weekly office hours, helped creating and graded assignments and exams.
* Teaching Assistant, CS 6968 (Spring 2023): Data Str & Alg Scalable Comp.  
  Instructor: Prashant Pandey  
  School of Computing, University of Utah.  
  Given lecturers, Advised project groups, held weekly office hours, created and graded assignments and exams.