Our Results

Can we obtain space optimal streaming algorithms with fast update times?

Yes! For many problems.

Preview

ullet Use PRGs to define the sketching matrix S

Show PRGs need to fool smaller space algorithms than earlier analyses

- Define a PRG with larger branching factor to retrieve S_{st_i} quicker



Our Results

- Can we obtain space optimal streaming algorithms with fast update times?
 - Yes! For many problems.
- Preview
 - Use PRGs to define the sketching matrix S
 - Show PRGs need to fool smaller space algorithms than earlier analyses
 - Define a PRG with larger branching factor to retrieve S_{st_i} quicker

Our Results