

# Charles R. Upshaw

*Mechanical Engineering PhD student*

*Advised by Dr. Michael Webber*

## Research Interests:

- Collecting and analyzing residential water and energy consumption data
- Modeling systems-level water and energy flows into and out of homes
- Designing and evaluating water/energy recovery systems in homes
  - Rainwater/gray water/AC condensate
  - Waste heat recovery, thermal storage, etc.
  - Solar water heating, home water treatment
- Developing data viz tools, and home

