

# Your Thesis is software

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## Throughput

An NSF Funded Research project NSF-1928366

### Goals

- Reduce “time-to-science” for researchers
  - Improve mechanisms for crediting different research outputs
  - Democratize scientific software
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## Main Components

- Education & Outreach (this workshop)
  - Throughput Database (database snapshots)
  - Earth Science Cookbook (throughputdb.com)
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## Education & Outreach

- We are good at doing research
  - We are not often good at documenting it (Lee 2018)
  - We are finding new uses for old research
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## Education & Outreach (pt 2)

- To avoid inequity in access Throughput is making tools accessible to a broader range of researchers
  - We are providing new avenues to discover workflows in the geosciences
  - We are providing new ways of annotating data to help improve the social dissemination of knowledge.
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## Throughput Database

- Making connections
    - Between data & software
    - Between data & the literature
    - Between the literature & software
    - Between grants, data, software & the literature
    - Among researchers.
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## Earth Science Cookbook

- throughputdb.com
  - Keyword and full-text searches for databases and the scripts that use them.
    - How do I connect climate and soils data?
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## Collaboration

All our work is open source & collaboration is welcome. <http://github.com/throughput-ec>