

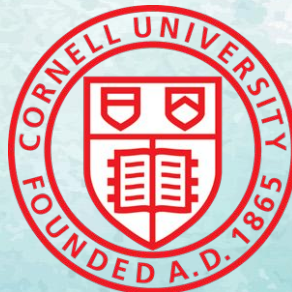


Spatial Accounting of Ecosystem Services

Melinda Lin, UMCES & CBP
Mentors: Angie Wei, UMCES | John Wolf, USGS
C-StREAM Fellowship 2025

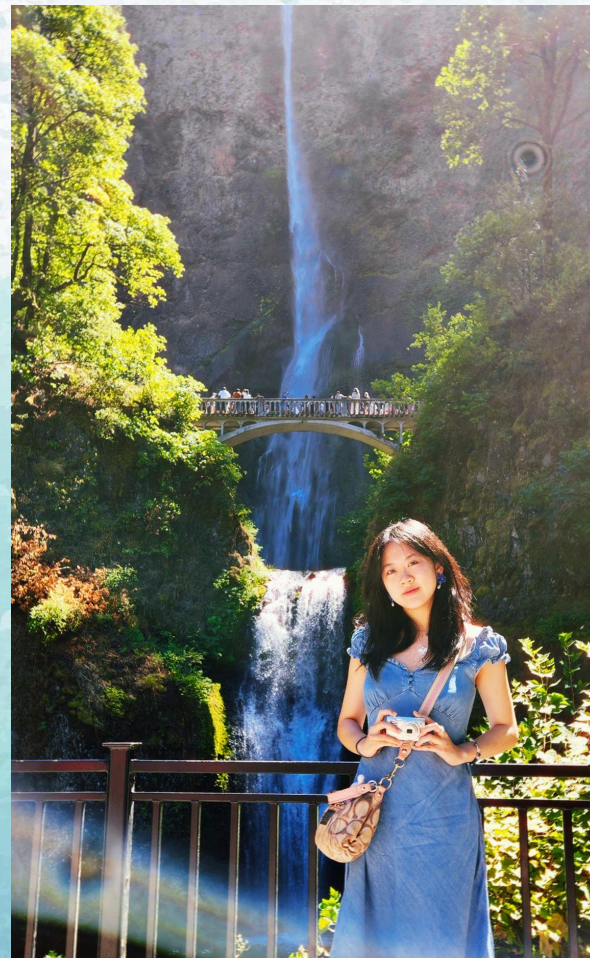
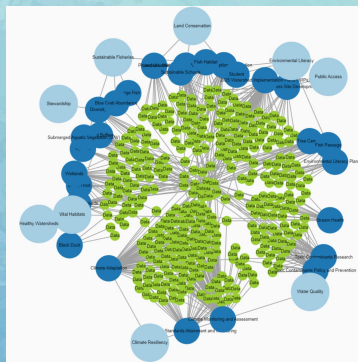
Hi again!

- **Hometown:** Portland, OR
- **Year:** Rising junior
- **Major:** Statistics and Data Science
- **Future plans:** Graduate school or continuing into data science, many options!
- Year 2 in C-StREAM
- Reach me at melinda888.college@gmail.com



Why C-StREAM again?

- Build off of last year's skills
- Contextualize graphs
- Wonderful program coordinators + mentors!



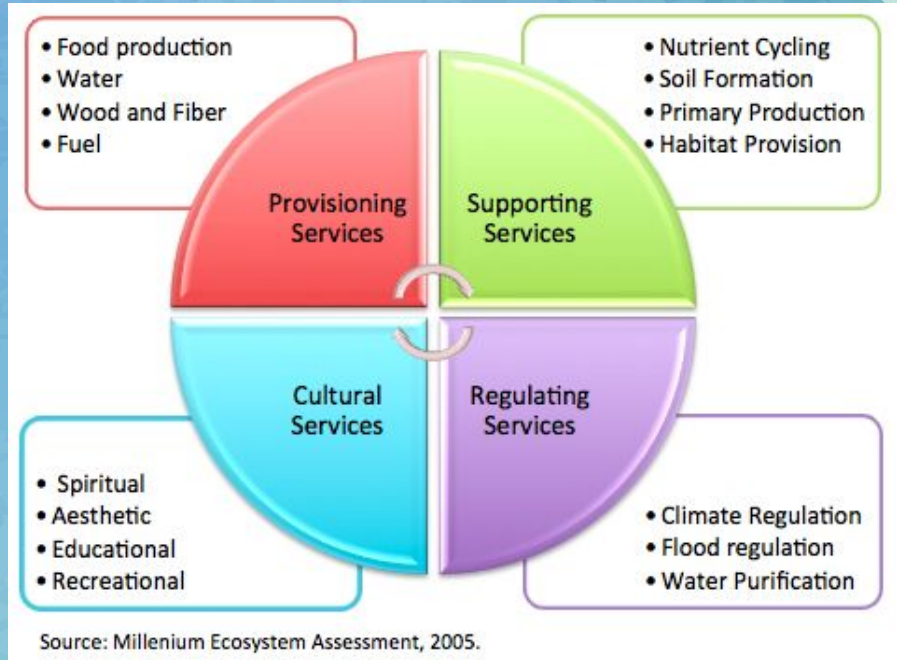
Ecosystem services?

What's that?

**How humans
benefits from
our ecosystems**



Allows us to best
understand the
value of our
ecosystems





ArcGIS StoryMaps

Why should I care?

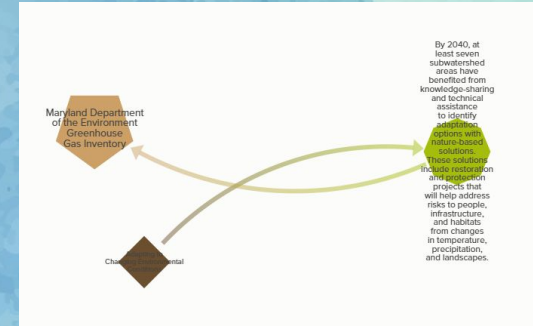
Let's take a look!

Challenges Faced ...

1. Communicating to a target audience

- Cutting content
- Graphing limits
- Standardization

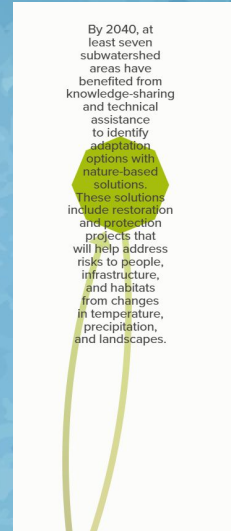
2. Fully remote this year



Adapting to Changing Environmental Conditions

Increase the capacity for pursuing nature-based solutions to improve planning and response to changing conditions while balancing long-term resiliency of watershed communities, economies, and ecosystems.

- By 2040, at least seven subwatershed areas have benefited from knowledge-sharing and technical assistance to identify adaptation options with nature-based solutions. These solutions include restoration and protection projects that will help address risks to people, infrastructure, and habitats from changes in temperature, precipitation, and landscapes.
- By 2040, workgroup activities will inform and lead to an increase in the implementation of adaptation strategies that integrate nature-based solutions in the above subwatershed areas.



... and Lessons Learned



ArcGIS



1. **ArcGIS**
 - a. Story mapping
 - b. Mapping in ArcGIS
2. **New knowledge graphs!**
 - a. Kumu, generate own data
3. **Literature review**

Thank you

Angie Wei and John Wolf

Gabriella Giordano

C-StREAM

GIS/GSAT team members

**for your continued support over the
past two years!**

