

# Forward \*

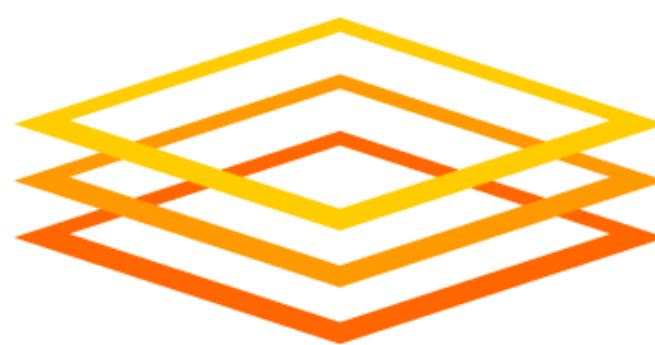
**Tim Cartwright**

*University of Wisconsin–Madison*

*OSG School Director*

*OSG Campus Coordinator*

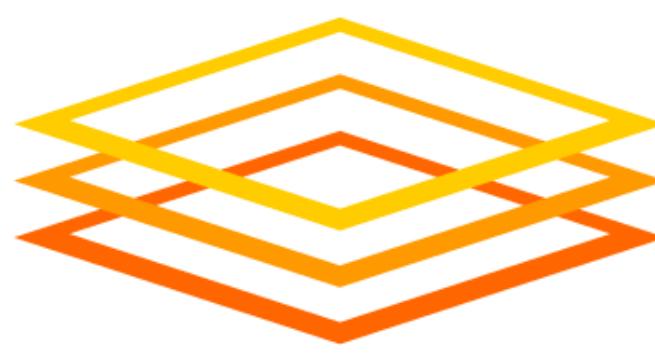
*\* Among other things, this is the State Motto of Wisconsin*



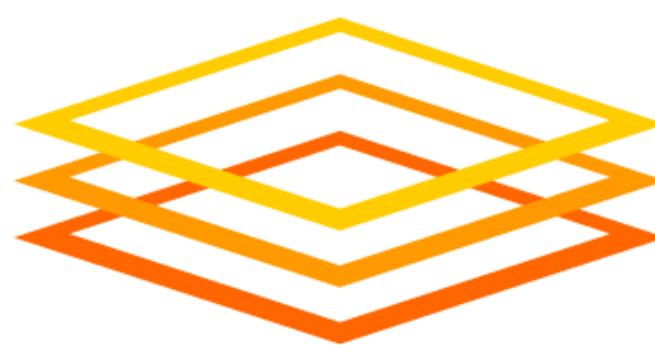
# Ideas for Going Forward from Here

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- Accessing capacity
- Staying in touch
- Final logistics
- Tim's random ideas



# *Accessing Capacity*



# Open Capacity – In Your Lab

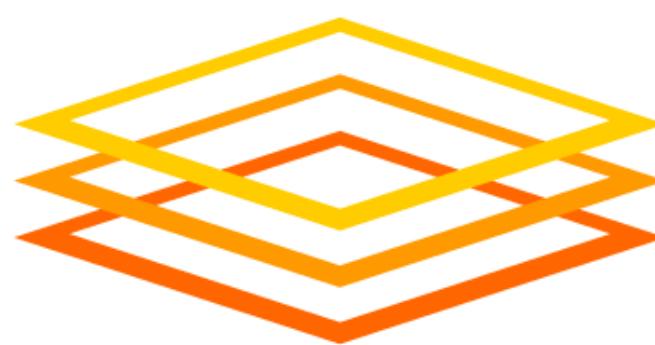
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## Server or cluster in your lab

- 👍 Not your laptop, control everything
- 👎 Buy and maintain it, not a lot of capacity



[https://images.abmx.com/30/3004/abmx\\_3004\\_1\\_1200.jpg](https://images.abmx.com/30/3004/abmx_3004_1_1200.jpg)



# Open Capacity – Local Cluster

## Department or campus cluster

- 👍 No/low direct costs, local help
- ❓ Shared; maybe Slurm, PBS/Torque, LSF...

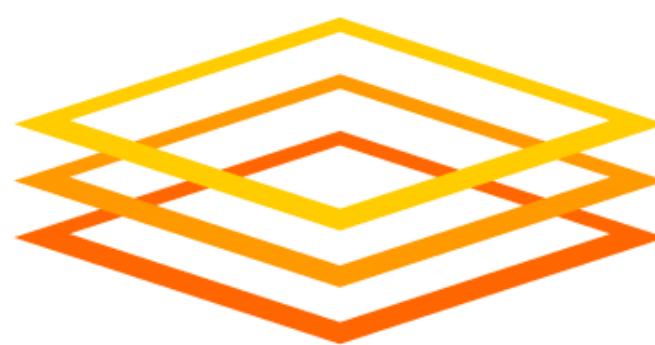
No campus cluster? Talk to CIO!

**Note! NSF CC\* Compute awards**

<https://new.nsf.gov/funding/opportunities/campus-cyberinfrastructure-cc/nsf24-530/solicitation>



<https://www.pngall.com/wp-content/uploads/5/Server-Rack-PNG-Free-Image.png>



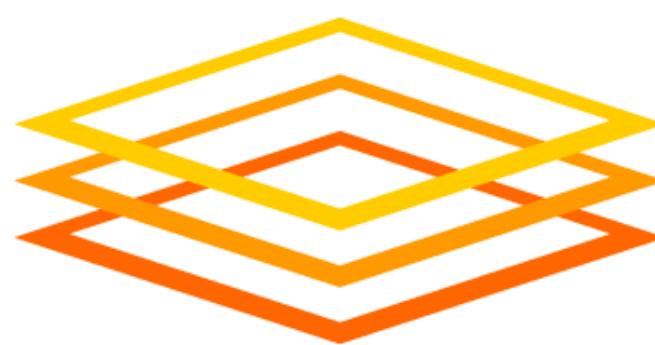
# Open Capacity – Collaborators

## Collaborators

- 👍 No/low direct costs, may be tailored to project
- 👎 Shared, project-specific, hard to come by



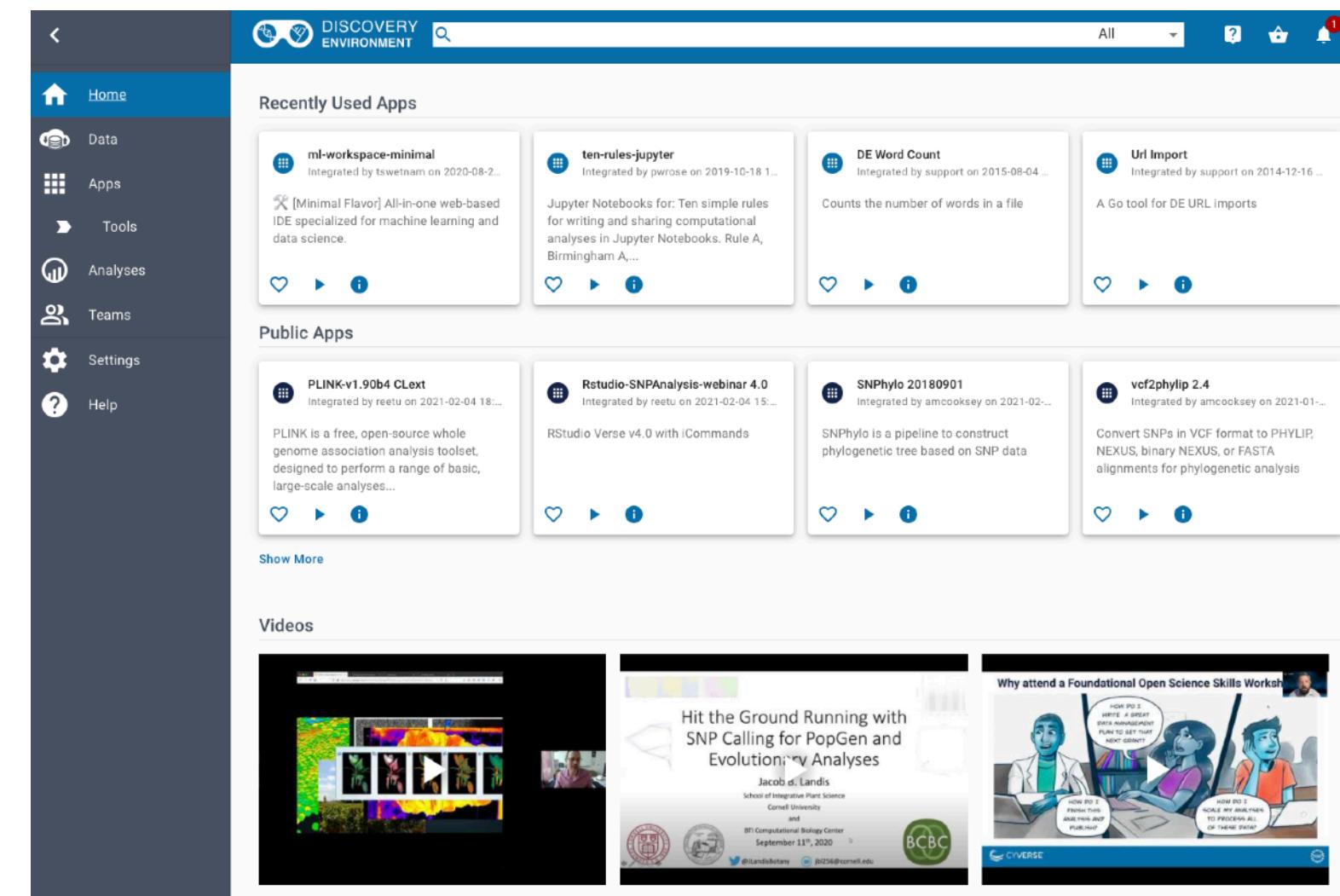
<https://www.dunescience.org/about-the-collaboration/>

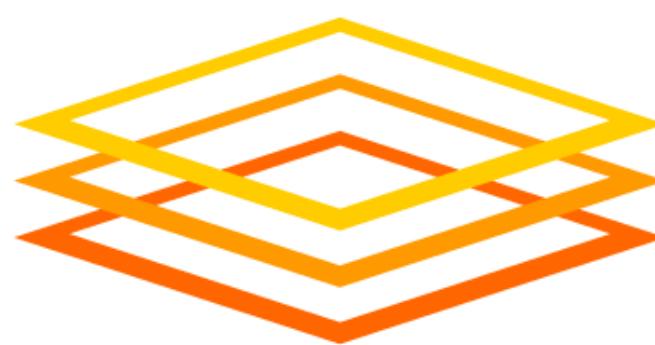


# Open Capacity – Science Gateways

**Science Gateways** (e.g., web front-end to a cluster)

- 👍 Easy to use, no/low cost
- 👎 Only for pre-defined use cases

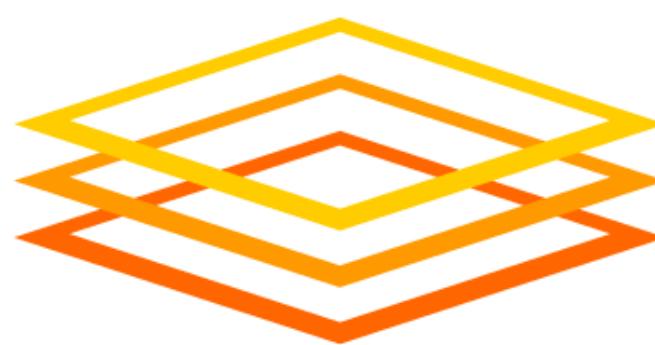




# Commercial Capacity

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- **Commercial clouds** (*Amazon, Google, Microsoft, ...*)
  - 👍 Don't own, high availability, many options (e.g., GPUs), ...
  - 👎 Pay/hour, data out may be costly; challenging to manage
- **Managed clouds** (*Azure CycleCloud, ...*)
  - 👍 As above, but *less* to manage
  - 👎 Costs more (paying someone to manage), fewer options?
- But keep commercial options in mind:
  - Credits may be available
  - May be able to write into grants
  - May be helpful for burst of activity (e.g., for a deadline)



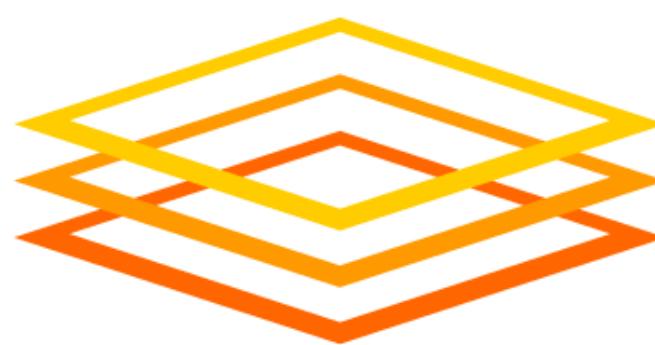
# PATh Facility

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The **PATh Facility** is a purpose-built, national-scale dHTC resource meant to deliver computational capacity to NSF researchers



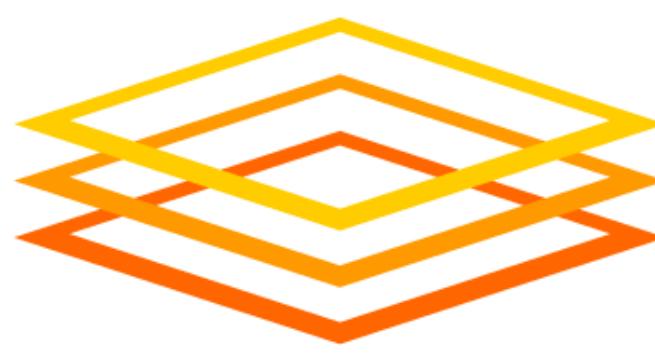
- Began in 2022
- Can apply for credits – existing or new NSF award
- Credits go toward **dedicated** dHTC capacity
- See [PATh website](#) and NSF DCL 22-051 for more:  
<https://www.nsf.gov/pubs/2022/nsf22051/nsf22051.jsp>



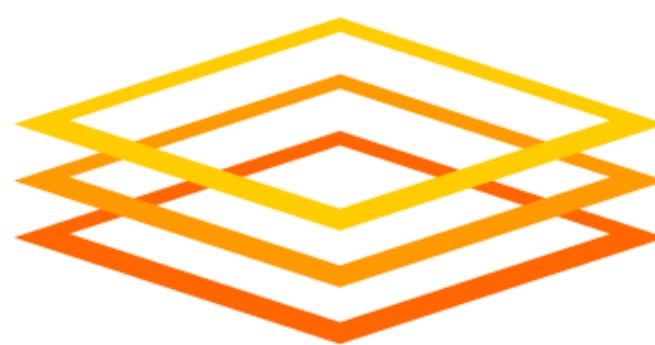
# Your School Accounts

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- **ap40.uw.osg-htc.org account**
  - If just created for School, temporary (~1 month)
  - But, just take easy steps to convert to full account
  - See School website (Logistics > Access OSPool):  
<https://osg-htc.org/school-2025/logistics/projects/>
- Remember that Access Points are not backed up!



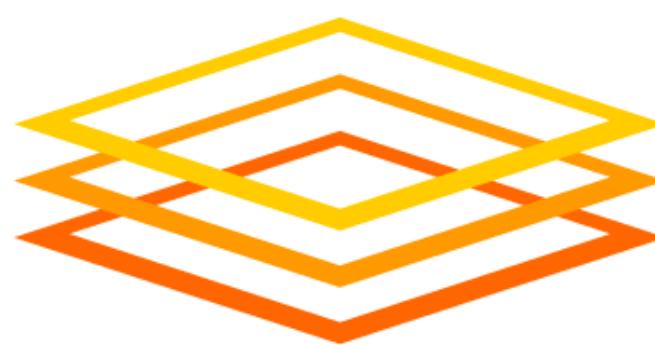
# *Staying in Touch*



# How to Reach Us

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- **For OSPool, OSDF, and related topics**
  - [support@osg-htc.org](mailto:support@osg-htc.org)
  - Reaches the OSG staff
- **For School-specific things**
  - Always use [school@osg-htc.org](mailto:school@osg-htc.org)
  - Reaches Tim, Christina, Janet... and indirectly, many others
- **Any time, for any reason, email us directly:**
  - Tim Cartwright <[cat@cs.wisc.edu](mailto:cat@cs.wisc.edu)>
  - Christina Koch <[ckoch5@wisc.edu](mailto:ckoch5@wisc.edu)>



# Online Support

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## Websites

[htcondor.org](http://htcondor.org)

[htcondor.org/manual](http://htcondor.org/manual)

[osg-htc.org](http://osg-htc.org)

[portal.osg-htc.org/documentation](http://portal.osg-htc.org/documentation)

[ctc.cs.wisc.edu](http://ctc.cs.wisc.edu)

[ctc.cs.wisc.edu/guides](http://ctc.cs.wisc.edu/guides)

HTCondor homepage

HTCondor manual

OSG homepage

OSPool docs

CTC Website

CTC How-To Guides

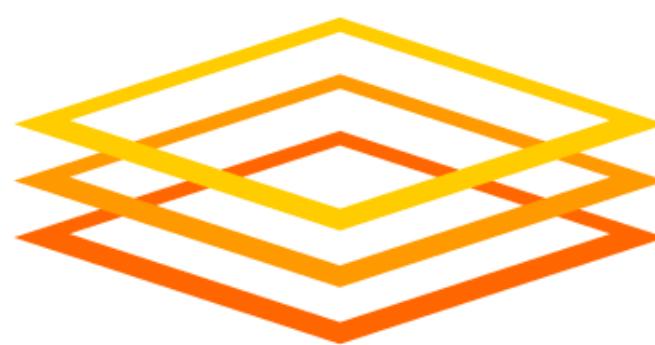
## Mailing Lists

[school@osg-htc.org](mailto:school@osg-htc.org)

[support@osg-htc.org](mailto:support@osg-htc.org)

will remain

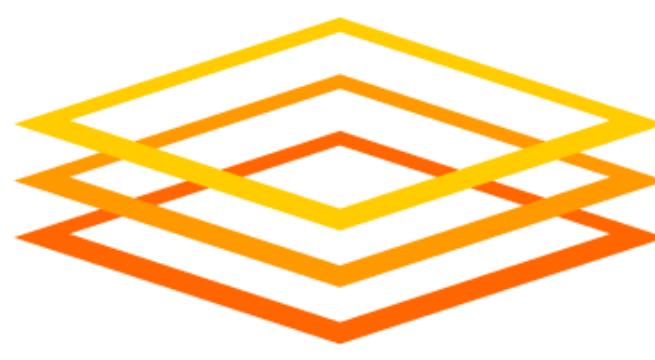
OSDF/OSPool (etc.) support



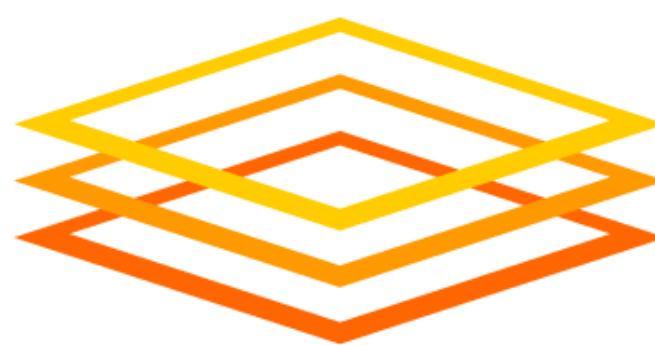
# Meetings

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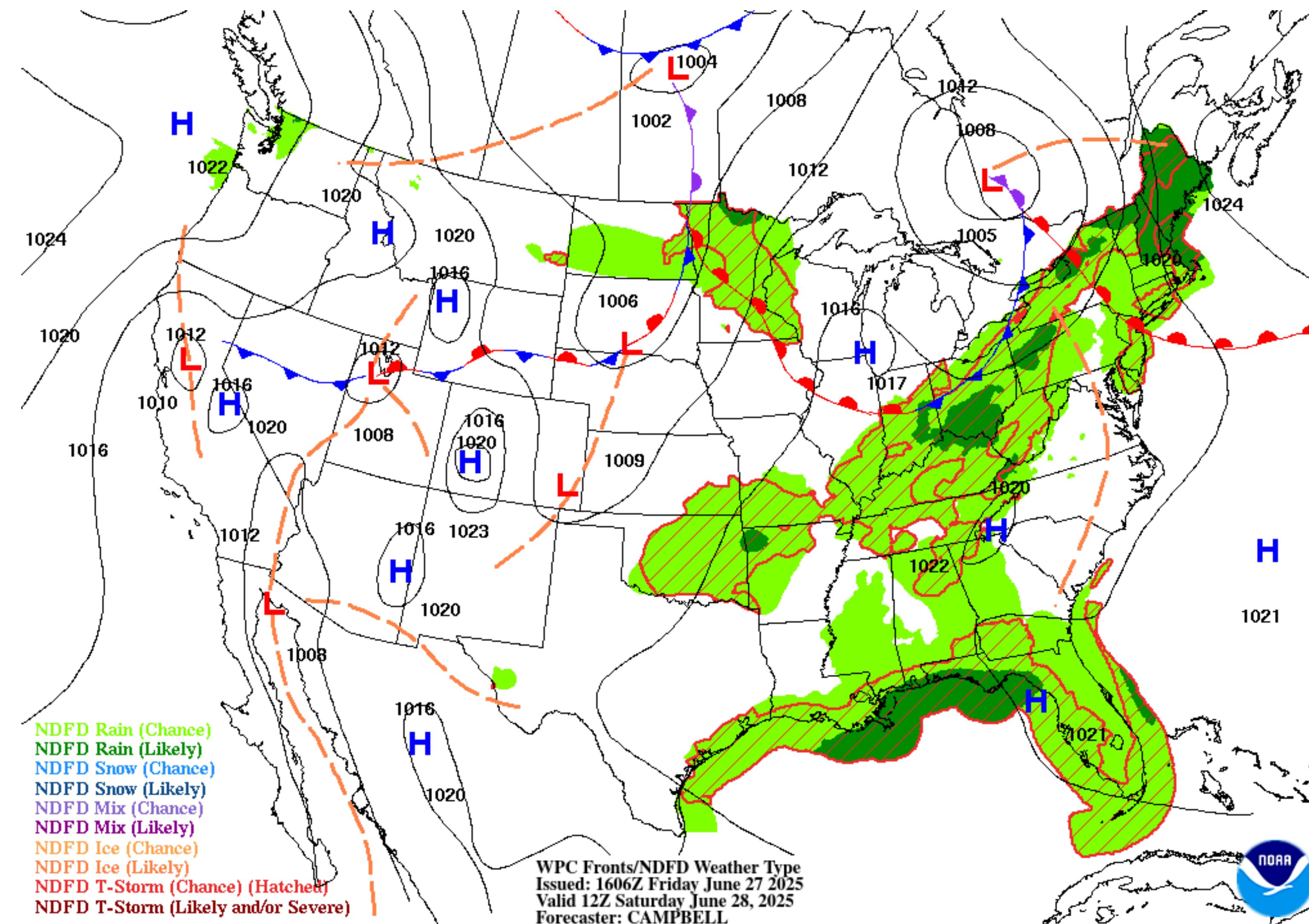
- **Throughput Computing Week 26 (and beyond)**
  - 9–12 June 2026
  - **David Swanson Award** – former School participants  
<https://osg-htc.org/community/school/david-swanson>
- **European HTCondor Workshop**
  - 15–19 September 2025 (Prague)
  - <https://home.cern/events/htcondor-workshop-autumn-2025-prague>

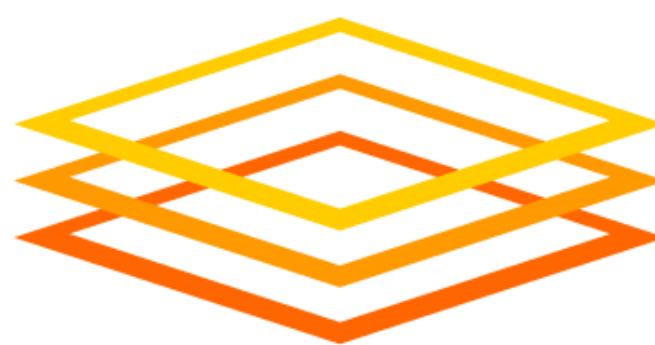


# *Final Logistics*



# Saturday





# Travel

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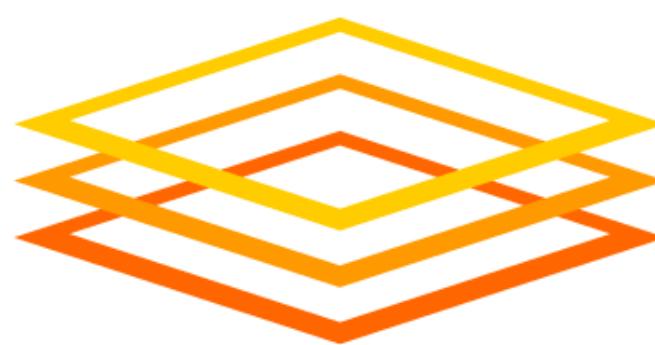
- Transportation emails went out yesterday
  - Most people will take shuttle or taxi/rideshare
  - If paid, payer should write down who shared the ride
- Remember the travel advice page:  
<https://osg-htc.org/school-2025/logistics/travel-advice/>
- If you encounter issues:
  - Try the airline first
  - **Must** use FWT to pay for changes
  - Let us know (if you want to and have time)



# Reimbursements

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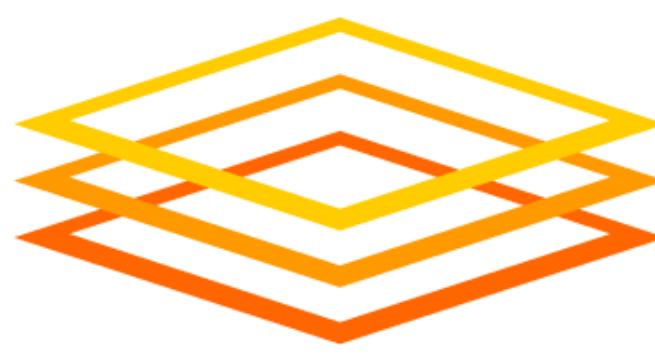
- Due 8 August 2025!
- What can be reimbursed?
  - Bus fare to/from Madison (if you paid)
  - Taxi or rideshare to/from Madison airport
  - Driving mileage, *if prearranged*
  - Meals (\$35/dinner, Mon–Thu)
  - Other *prearranged* things
  - Except for dinners, it is best to have actual receipts
- How to get reimbursed?  
<https://osg-htc.org/school-2025/logistics/reimbursements/>



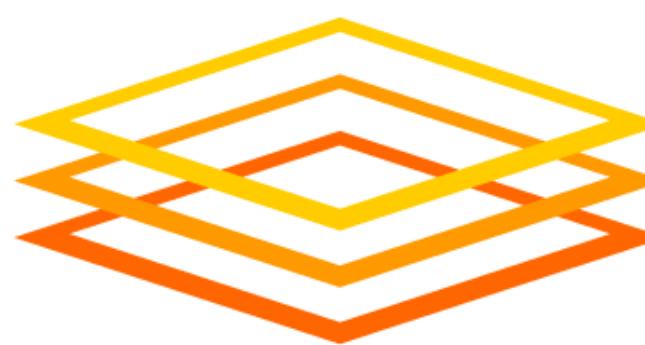
# Short Essay (If No Lightning Talk)

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- Similar to the lightning talks, but written
  - Brief summary of current research work
  - One key computational challenge
  - How will you apply new knowledge & skills to that challenge
  - (most effort goes into that last part!)
- Due by 1 August 2025
- Email PDF to School mailing list



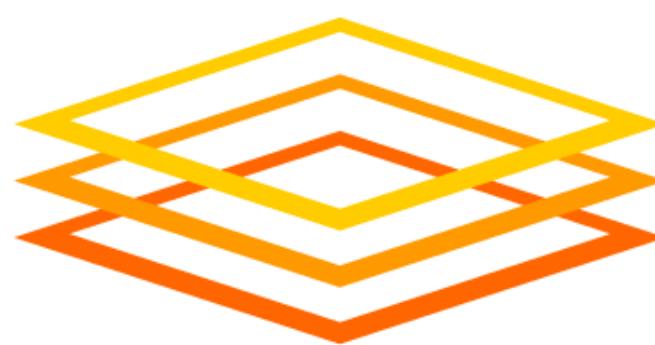
# Forward



# How To Go Forward

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- Learning new skills ⇒ joining a *community of practice*
- Keep learning! (e.g., HTC26; YouTube videos, training)
  - <https://www.youtube.com/@osg4221>
  - [https://portal.osg-htc.org/documentation/support\\_and\\_training/training/osgusertraining/](https://portal.osg-htc.org/documentation/support_and_training/training/osgusertraining/)
- Keep practicing!
- My idea: It is better to do 10 minutes every day than one hour a week.



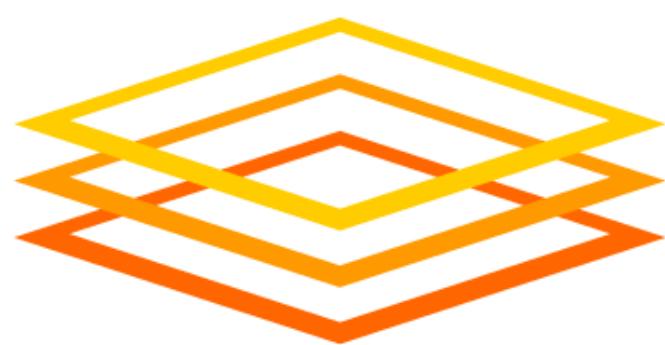
# How to Work With Us

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- We are driven by user needs and expectations, plus our principles
- So push us to help make your research possible
- And we may push on you to take your work even further!



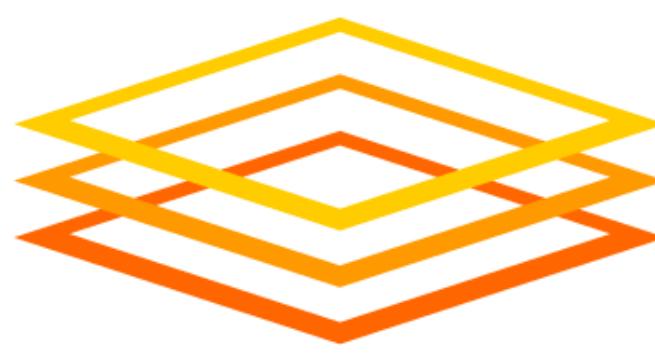
Photo: SafetySign.com



# Be Part of the Community

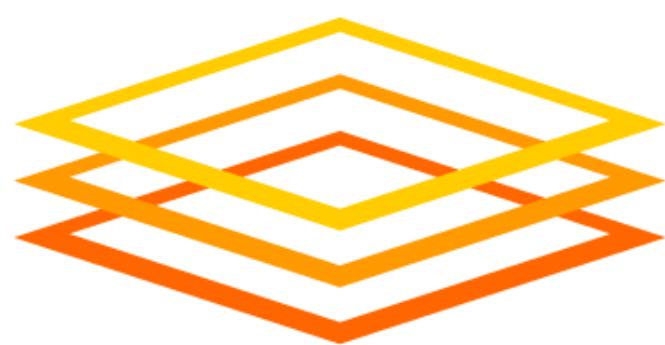
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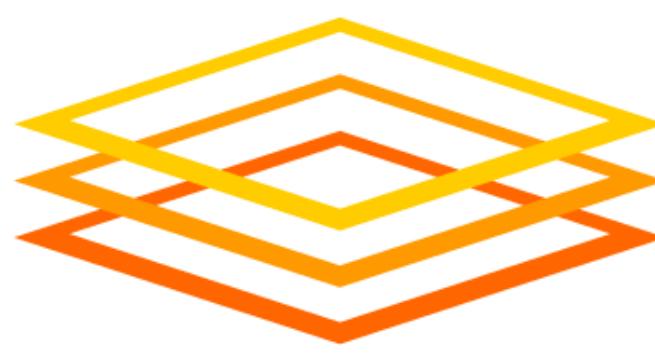
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**Don't let computing be  
a barrier to research!**



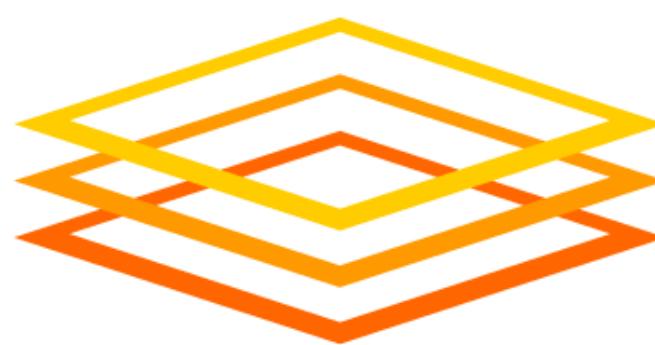
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**I, [YOUR NAME],  
solemnly swear  
to not let computing  
be a barrier to research!**



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**THANK YOU!**

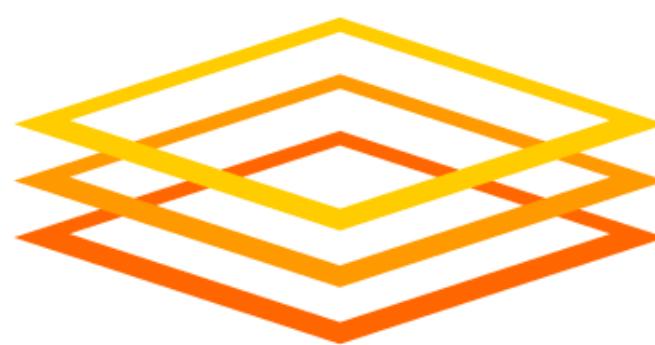


# Closing Dinner

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**Fluno Center, Skyview Room**  
**(601 University Avenue, 8th floor)**

**6:30 p.m.**



# Acknowledgements

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This work is supported by NSF under Cooperative Agreement OAC-2030508 as part of the PAtH Project. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the NSF.