# Galaxy Deployments at Indiana University

## Carrie Ganote

National Center for Genome Analysis Support

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## About IU and NCGAS, and me

### A bit about Indiana University: Very culturally diverse campuses Known for our Jacob's School of Music and Kelley School of Business



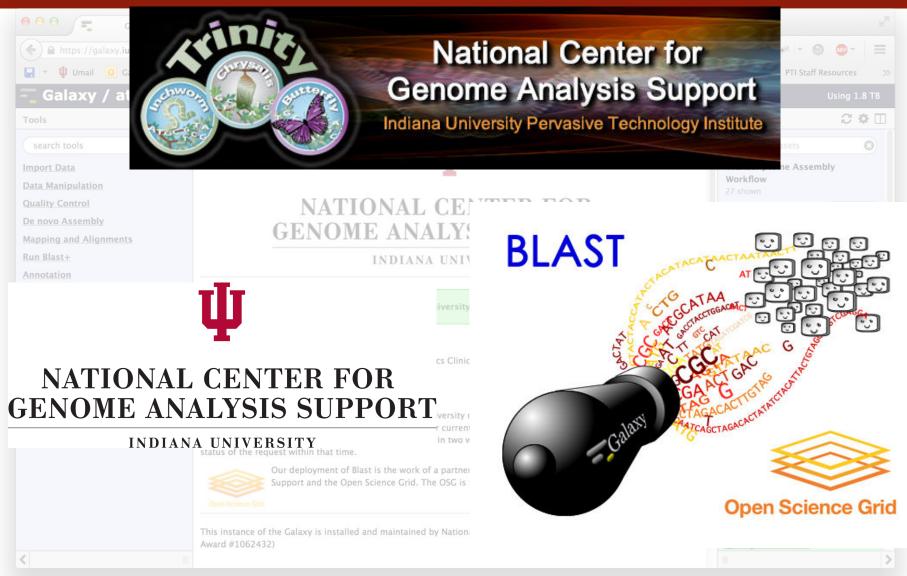
## A bit about NCGAS:

National Center for Genome Analysis Support NSF/NIH/IU funded group offering bioinformatics support/Linux help and lab experience to researchers

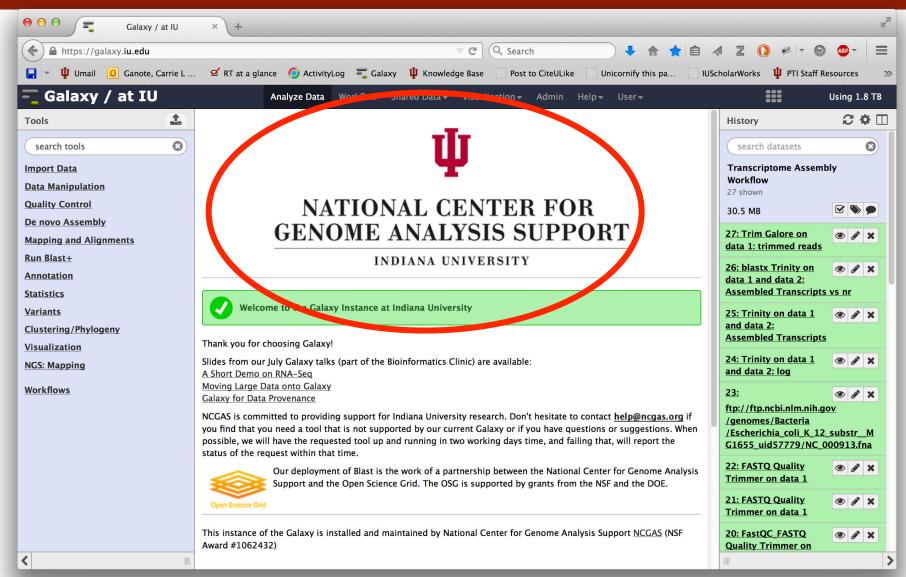
> A bit about me: NCGAS Staff since Oct 2012 First year PhD student, woohoo! An unhealthy obsession with turkeys



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Thanks for watching! Questions and comments: Email <u>help@ncgas.org</u>

#### **INDIANA UNIVERSITY**

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Tools I search tools Import Data Data Manipulation Vanilla Extract	<ul> <li>Running since 2012 on Mason clus</li> <li>Deployed on Quarry, Big Red2 and Karst</li> <li>Apache proxy + Kerberos Authentication</li> <li>Lustre Filesystem</li> <li>Most tools, with emphasis on large applications</li> </ul>	SOOD TO BE 30.5 MB S S S S S S S S S S S S S S S S S S	
	<ul> <li>University-wide, plus collaborators</li> <li>Still using hg</li> <li>Fancy javascript tool menus!</li> </ul>		



# **The Game Plan**

-10.930

7501. b/25

gw 14

Calaxy

Listas

npna

BLAST is an embarrassingly parallel program – it's our only tool that uses the grid.

Photo by Soichi Hayashi. National Center for Genome Analysis Support: http://ncgas.org



# **The Game Plan**

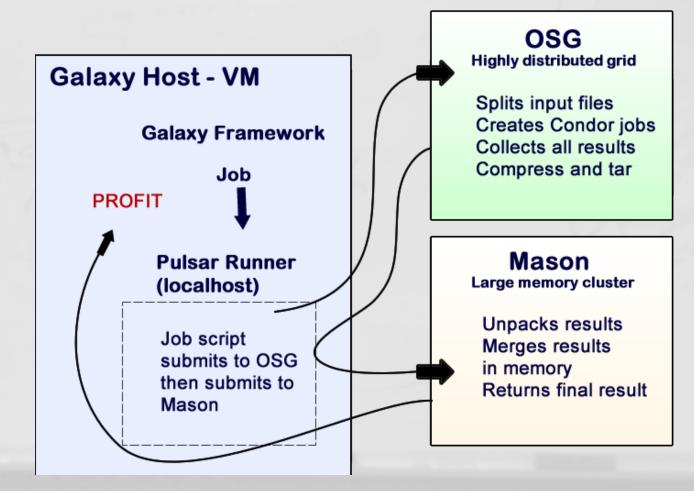
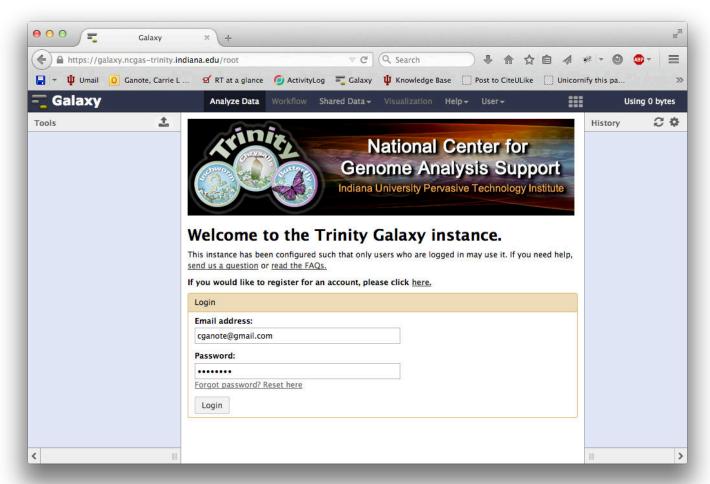


Photo by Soichi Hayashi. National Center for Genome Analysis Support: http://ncgas.org

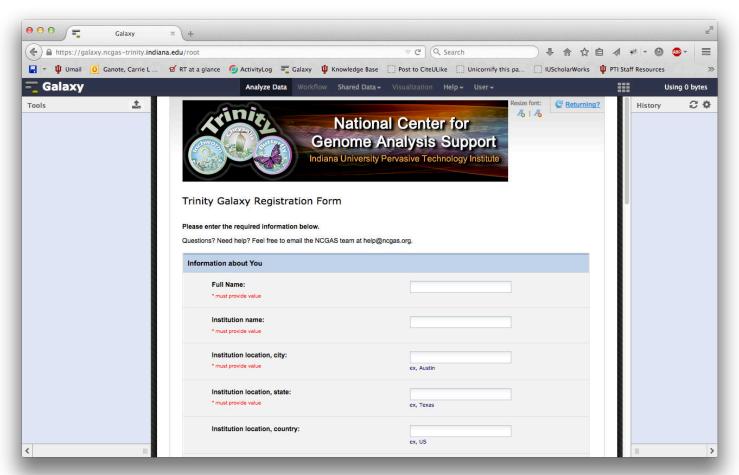


# **Trinity Galaxy**

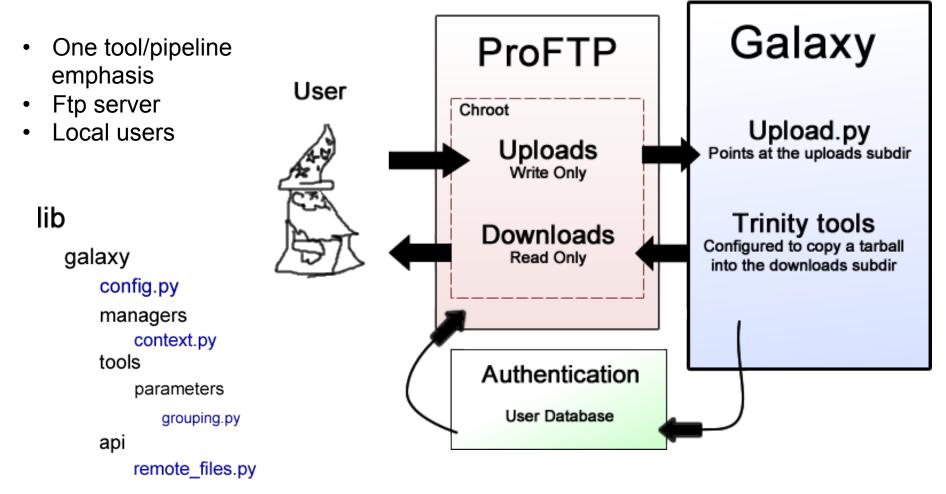




# **Trinity Galaxy**



# **Trinity Galaxy**





# Challenges

### Job Runners:

- PBS still breaks with Torque 4x
  - Seems to have trouble interacting with the dynamic runner
- Drmaa one destination possible?
- Dev servers are always somehow different than production!

# **Future Goals**

- Trinity needs some more guinea pigs!
   Sign up now!
- IU Galaxy still needs to be moved to Github
- OSG-BLAST is still in beta



Guinea Pig by Peter Griffin



Fín (for real)

**Open Science Grid** 

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