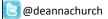


Data Management and Accessibility

Deanna M. Church Senior Director of Genomics and Content Personalis, Inc



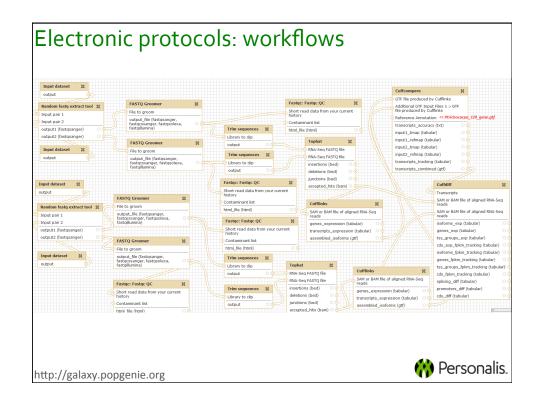
Short Course in Medical Genetics 2014

Disclosures

Deanna Church works for Personalis, Inc. A company that provides whole genome and whole exome sequencing and analysis services.

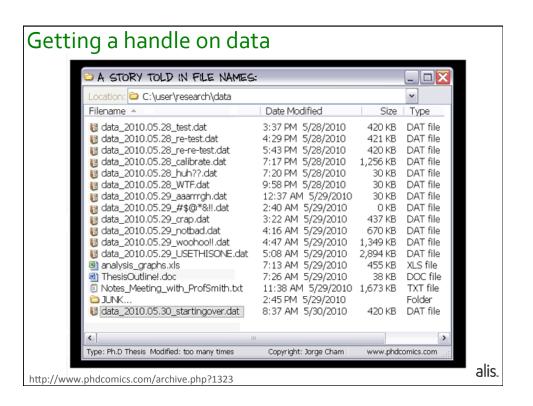


The nature of data management has changed Was... Now... Notes Pictures of gels Autoradiograms Notes Personalis.



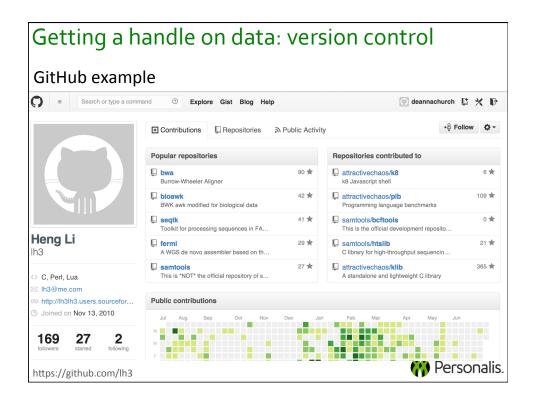
Personalis.

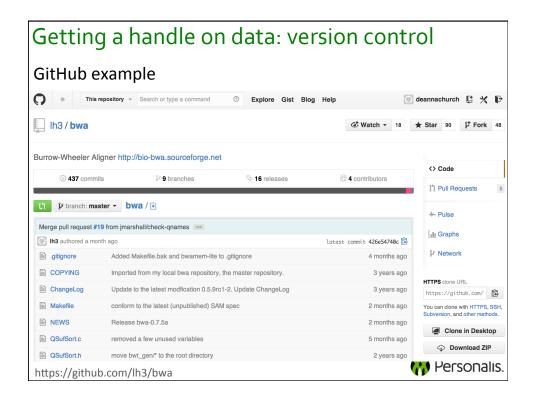
Often require a Unix environment Often run on the command line Not always easy to make work I'M GETTING OUT OF MY COMFORT ZONE!



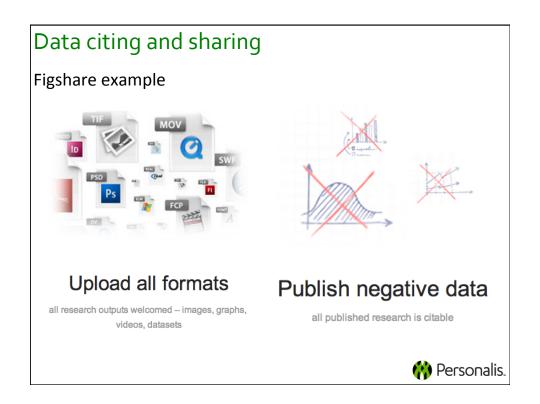
Getting a handle on data: version control SVN example Directory revision: 406708 (of 406823) Sticky Revision: Author Last log entry Parent Directory 404199 3 weeks rafanovi ctgoverlap migrated from CVS;JIRA:SVN-55 DBAction.pl 404199 3 weeks rafanovi ctgoverlap migrated from CVS;JIRA:SVN-55 FindBestHit.pl 405887 6 days church CG-1028: Issue asn.1 now created with issue mapping GetJiraIssues.pl 404199 3 weeks rafanovi ctgoverlap migrated from CVS;JIRA:SVN-55 <u>GetResolvedIssues.pl</u> 404199 3 weeks rafanovi ctgoverlap migrated from CVS;JIRA:SVN-55 MakeBigChrGraphic.pl 404199 3 weeks rafanovi ctgoverlap migrated from CVS;JIRA:SVN-55 MakeCertXML.pl 404199 3 weeks rafanovi ctgoverlap migrated from CVS;JIRA:SVN-55 MakeRegionReport.pl 404199 3 weeks rafanovi ctgoverlap migrated from CVS;JIRA:SVN-55 MakeReportConfig.pl Personalis.

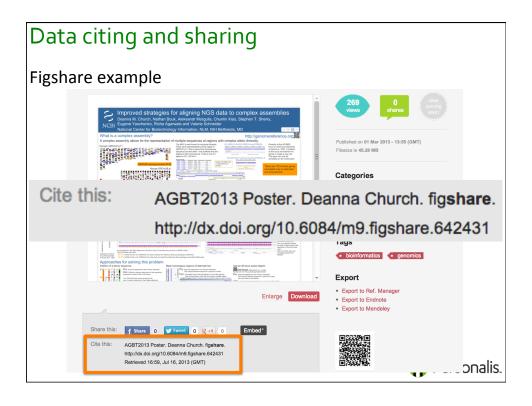
Getting a handle on data: version control **SVN** example Links to HEAD: (view) (download) (as text) (annotate) Sticky Revision: Set Revision 405887 - (view) (download) (as text) (annotate) - [select for diffs] Modified Tue Jul 9 13:19:25 2013 EDT (6 days, 23 hours ago) by church File length: 46179 byte(s) Diff to previous 405859 CG-1028: Issue asn.1 now created with issue mapping Revision 405859 - (view) (download) (as text) (annotate) - [select for diffs] Modified Tue Jul 9 10:54:36 2013 EDT (7 days, 1 hour ago) by church File length: 45341 byte(s) Diff to previous 405839 fixed CG-1488 Found bug related to missed mappings

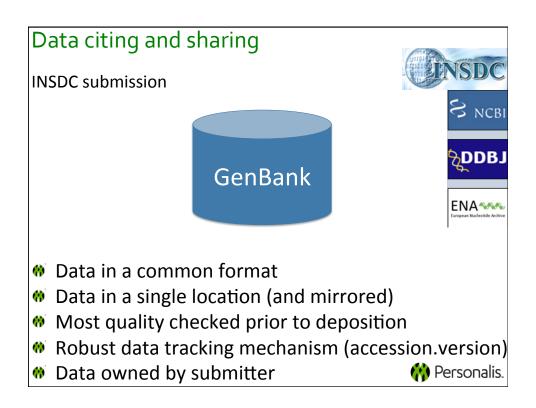












What is next?

- Talk to colleagues about their best practices
 - Solutions may exist in your institution
- Learn to program
 - Software carpentry (http://software-carpentry.org)
 - Codecademy (http://www.codecademy.com)
- Watch this video

http://www.youtube.com/watch?v=N2zK3sAtr-4

