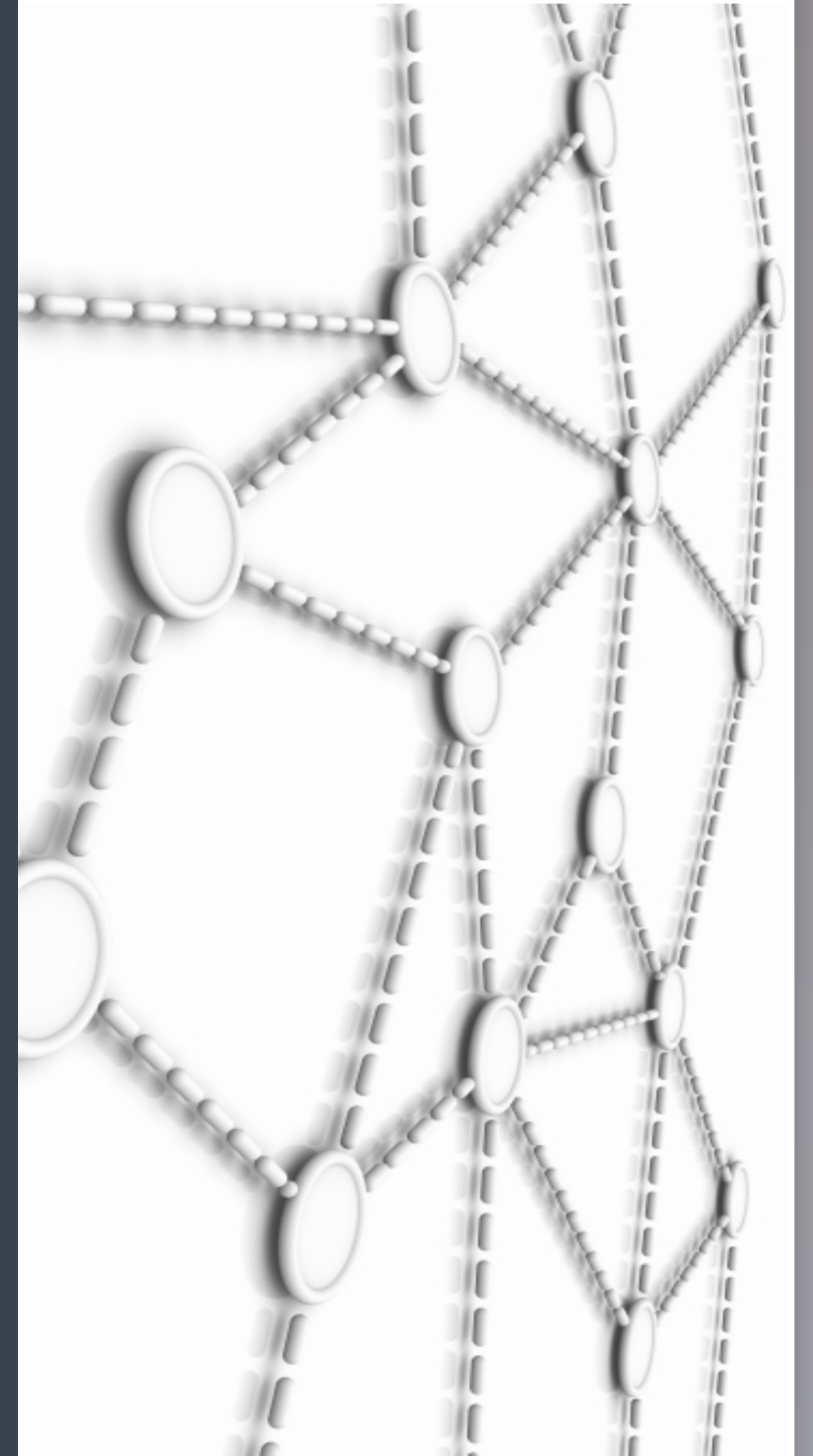


Spring?

NGS data analysis course: ~~Winter~~ 2016

Harvard Chan Bioinformatics Core (HBC)

Course: Learning Objectives



- ✓ Comprehend the nature of Next-Generation Sequencing (NGS) data
 - ✦ Multiple technologies
 - ✦ Caveats
 - ✦ Options and strategies
- ✓ Understand how tools and workflows for NGS-based analysis work
- ✓ Utilize these tools and workflows
 - ✦ Big data = Big Computational Requirements; what does this really entail?
 - ✦ UNIX command-line interface
 - ✦ R

Learning objectives

- ✓ Implement best practices
 - ✦ Experimental design
 - ✦ Quality control and Assessment
 - ✦ Reproducibility
- ✓ Become a resource for your group

Learning objectives



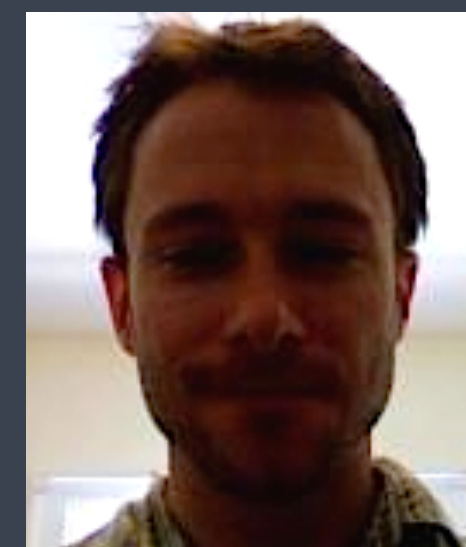
Shannan Ho Sui



John Hutchinson



Brad Chapman



Rory Kirchner



Meeta Mistry



Radhika Khetani



Mary Piper



Lorena Pantano



Oliver Hofmann



Peter Kraft

Harvard Chan Bioinformatics Core

Services offered by HBC

Consulting:

RNA-seq, small RNA-seq and ChIP-seq

Genome-wide methylation

WGS, resequencing, exome-seq and structural variation

Gene expression arrays (microarrays)

Functional enrichment

Grant support



Services offered by HBC

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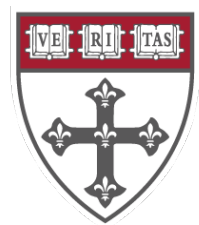
NGS-focused bioinformatics training:

[Galaxy](#)-based NGS analysis, Introductory and intermediate [R](#),

Introductory [Python](#), Introduction to [Unix and HPC](#),

In-depth courses, and other.





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SCIENCE CENTER



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MEDICAL SCHOOL

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Bioinformatics
Core

Center for
Stem Cell
Bioinformatics

Harvard
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Bioinformatics
Consulting

HMS
Tools &
Technology

Harvard
NeuroDiscovery
Center

Want more information?

Consult email: bioinformatics@hsph.harvard.edu

Training email: hbctraining@hsph.harvard.edu

Website: <http://bioinformatics.sph.harvard.edu>

Twitter: @bioinfocore



Boswell, Sarah

Chatterjee, Nirmalya

Chopra, Sameer

de Esch, Celine

Doupe, David

Ettou, Sandrine

Hu, Dan

Kathrein, Katie

Lobbardi, Riadh

Malleshaiah, Mohan

Paschini, Margherita

Renthal, William

Rood, Benjamin

Rupaimoole, Rajesha

Scheffer, Deborah

Shah, Manasvi

Tan, Catherine

Zaborowski, Mikolaj

Zerbato, Madeleine

Zuccaro, Emanuela

Variant Calling session (+Github): April 28th and 29th

Exit Survey: <http://tinyurl.com/NGS-course-exit-survey>

5:30 is *beer time*

at the *Squealing Pig*

on Smith st. across Huntington ave.