

# Introduction to R

Harvard Chan Bioinformatics Core

<https://tinyurl.com/intro-to-r-1-5>

Sponsored by HMS (TnT) and HSCI



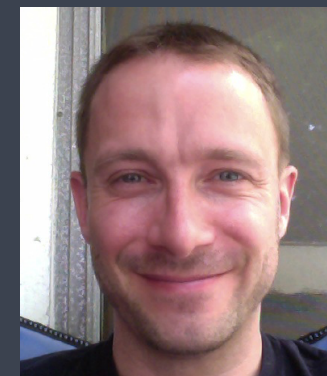
Shannan Ho Sui



John Hutchinson



Brad Chapman



Rory Kirchner



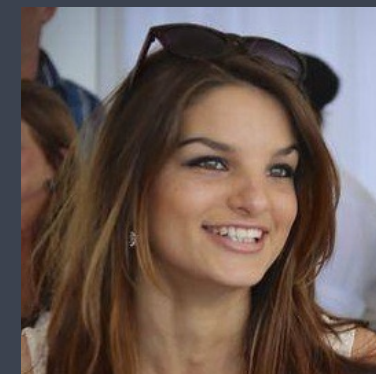
Meeta Mistry



Radhika Khetani



Mary Piper



Kayleigh Rutherford



Victor Barrera



Lorena Pantano

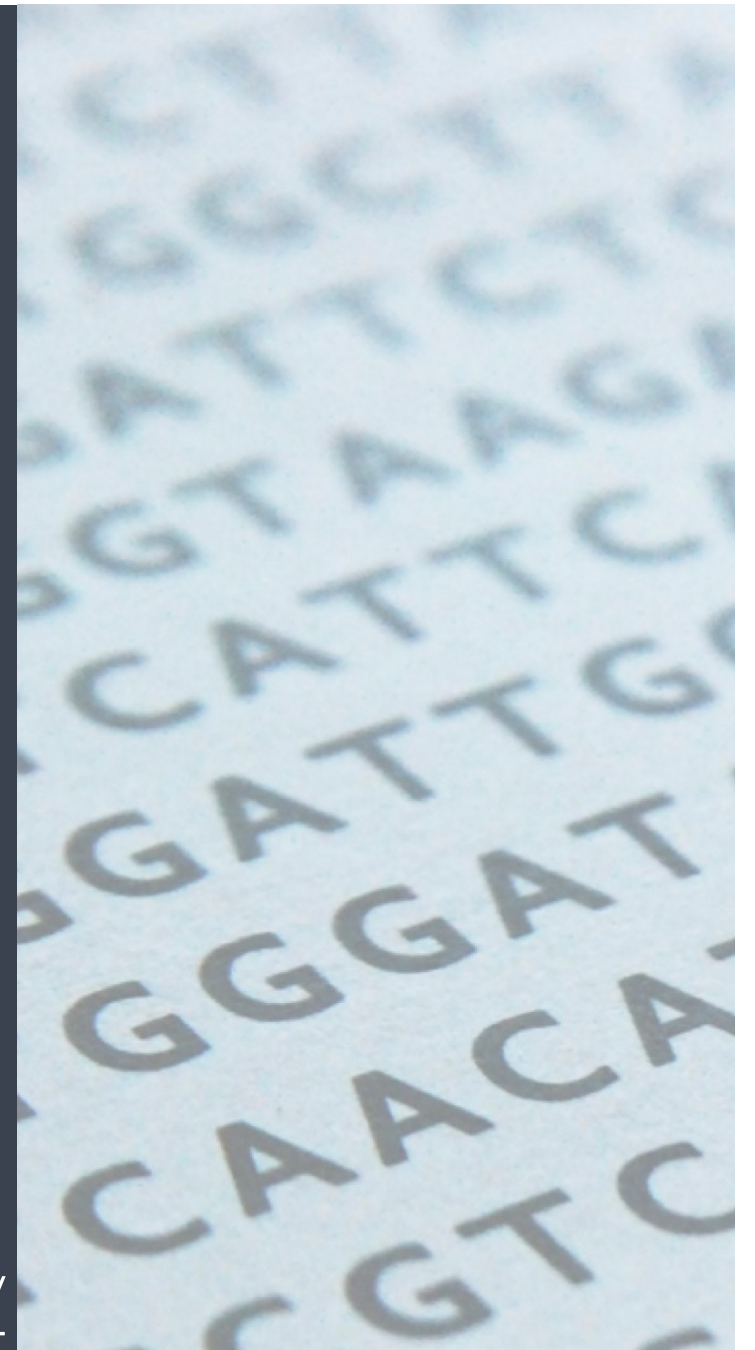


Peter Kraft

# Consulting

- RNA-seq analysis: bulk, single cell, small RNA
- ChIP-seq and ATAC-seq analysis
- Genome-wide methylation
- WGS, resequencing, exome-seq and CNV studies
- QC & analysis of gene expression arrays
- Functional enrichment analysis
- Grant support

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

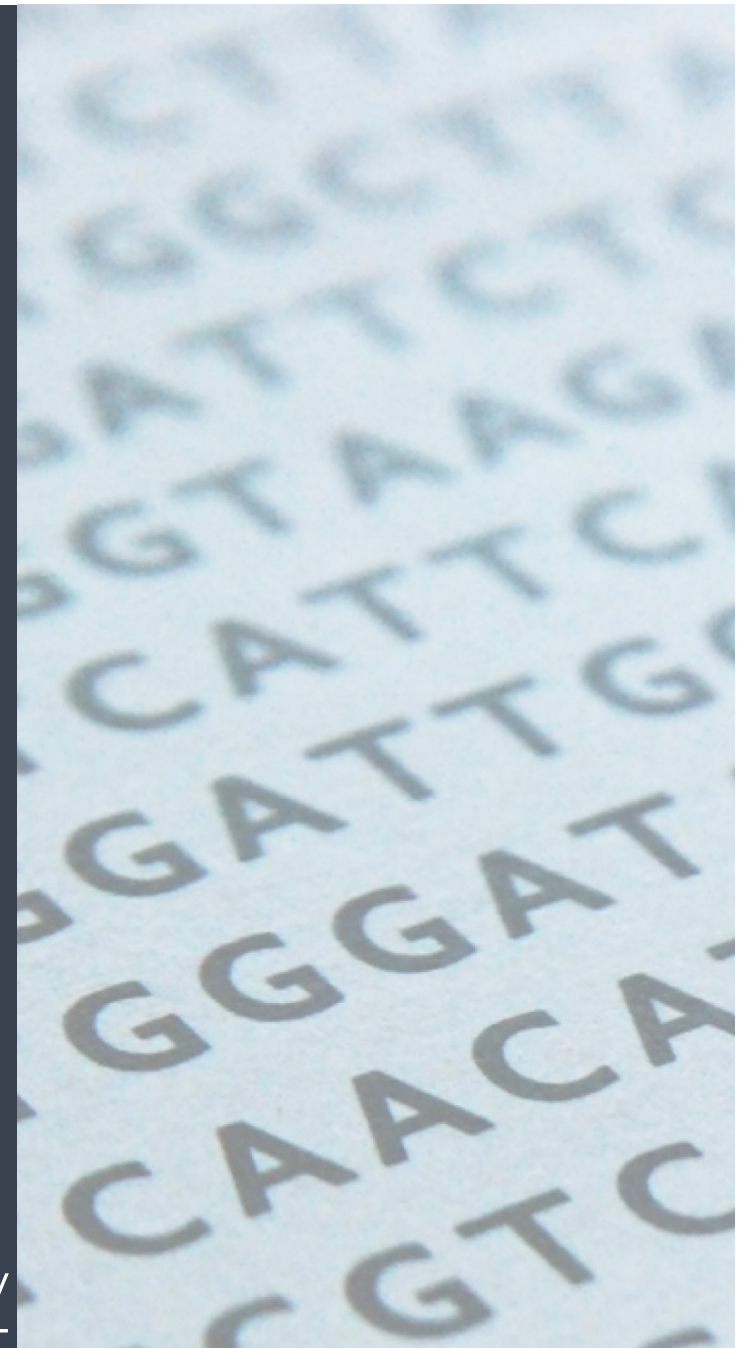




# Training

- Short workshops on introductory, intermediate and advanced topics related to NGS data analysis
- Monthly, 2-3 hour, hands-on and free workshops on “Current Topics in Bioinformatics”
- In-depth courses (8- or 12-day formats)

[bioinformatics.sph.harvard.edu/training/](http://bioinformatics.sph.harvard.edu/training/)





**HARVARD**  
**T.H. CHAN**  
SCHOOL OF PUBLIC HEALTH

**HSCI**  
HARVARD STEM CELL  
INSTITUTE



**HARVARD  
CATALYST**  
THE HARVARD CLINICAL  
AND TRANSLATIONAL  
SCIENCE CENTER



**HARVARD**  
MEDICAL SCHOOL

NIEHS / CFAR  
Bioinformatics  
Core

Center for Stem  
Cell  
Bioinformatics

Harvard  
Catalyst  
Bioinformatics  
Consulting

HMS  
Tools &  
Technology  
Committee



**HARVARD**  
**T.H. CHAN**  
SCHOOL OF PUBLIC HEALTH

**HSCI**  
HARVARD STEM CELL  
INSTITUTE



**HARVARD**  
**CATALYST**  
THE HARVARD CLINICAL  
AND TRANSLATIONAL  
SCIENCE CENTER



**HARVARD**  
MEDICAL SCHOOL

NIEHS / CFAR  
Bioinformatics  
Core

Center for Stem  
Cell  
Bioinformatics

Harvard  
Catalyst  
Bioinformatics  
Consulting

HMS  
Tools &  
Technology  
Committee



Shannan Ho Sui



John Hutchinson



Brad Chapman



Rory Kirchner



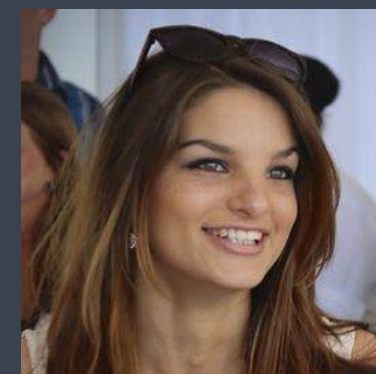
Meeta Mistry



Radhika Khetani



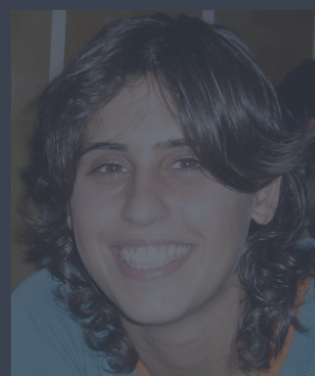
Mary Piper



Kayleigh Rutherford



Victor Barrera



Lorena Pantano



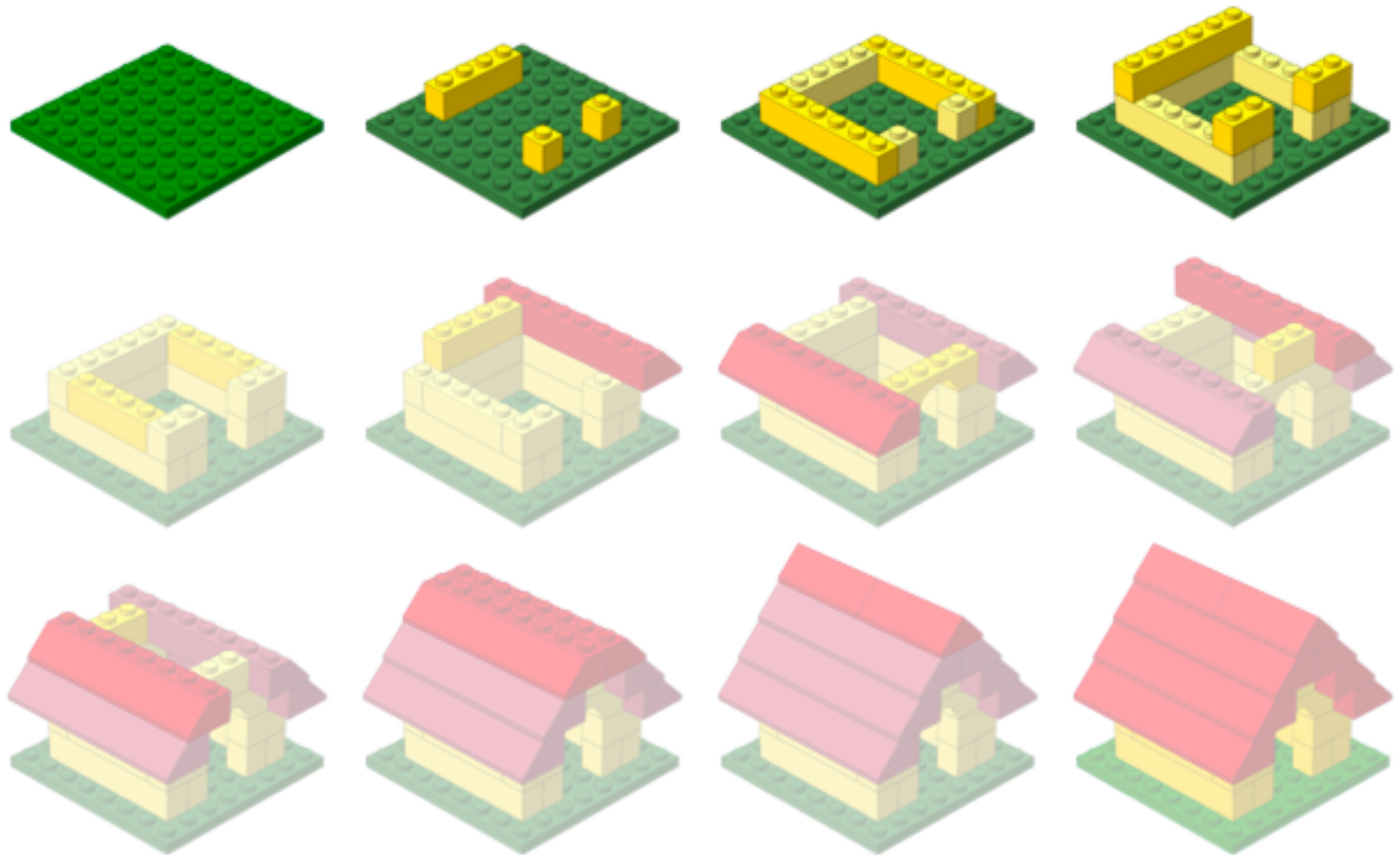
Peter Kraft

## Harvard Chan Bioinformatics Core

# Class Introductions!

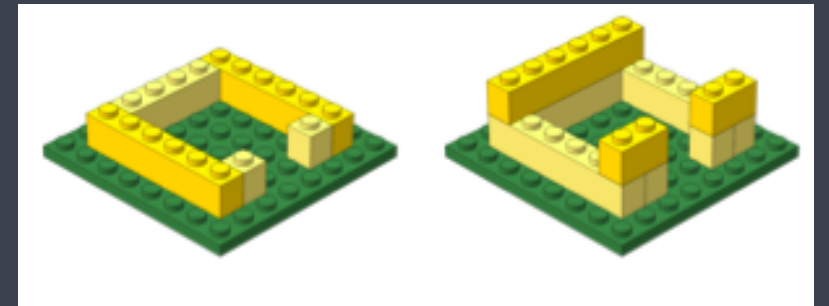


Workshop Scope...



# Learning R

# Workshop Scope



- ✓ Comfortably use RStudio (a graphical interface for R)
- ✓ Fluently interact with R using RStudio
- ✓ Become familiar with R syntax
- ✓ Understand data structures in R
- ✓ Inspect and manipulate data structures
- ✓ Install packages and use functions in R
- ✓ Visualize data using *ggplot2*

# Contact us!

*HBC training team:* [hbctraining@hsph.harvard.edu](mailto:hbctraining@hsph.harvard.edu)

*HBC consulting:* [bioinformatics@hsph.harvard.edu](mailto:bioinformatics@hsph.harvard.edu)

Twitter

[@bioinfocore](https://twitter.com/bioinfocore)