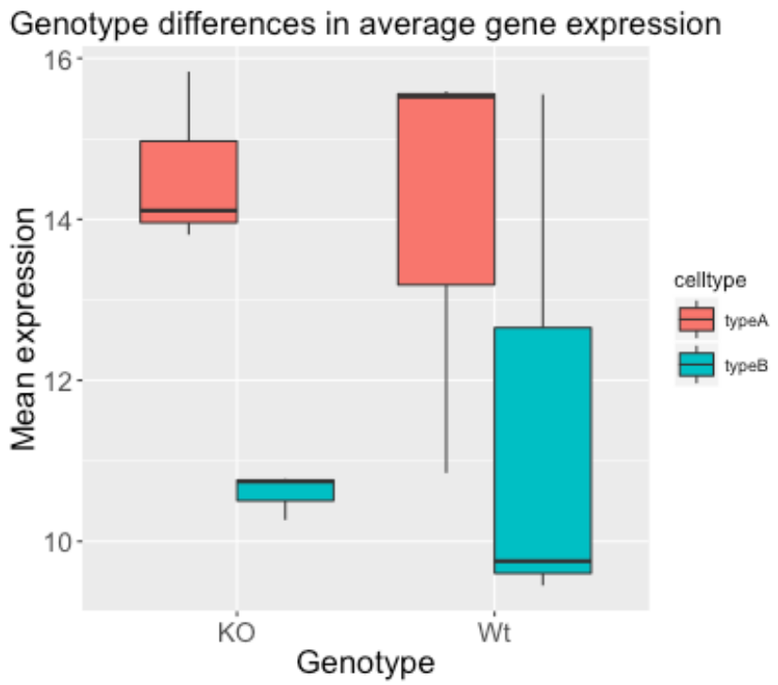


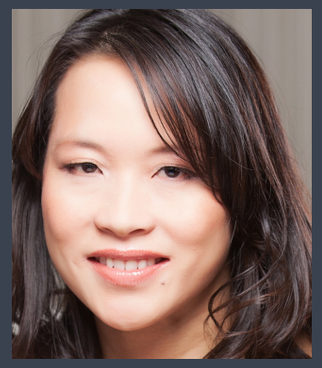
Introduction to R

Harvard Chan Bioinformatics Core

April 20th, 2017

http://tinyurl.com/hbc-intro-R

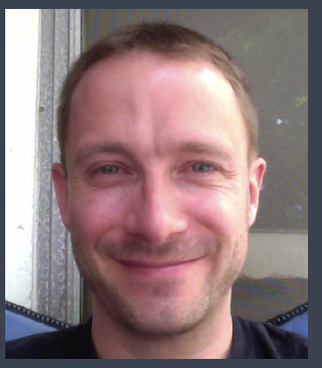
Sponsored by HNDC



Shannan Ho Sui

John Hutchinson

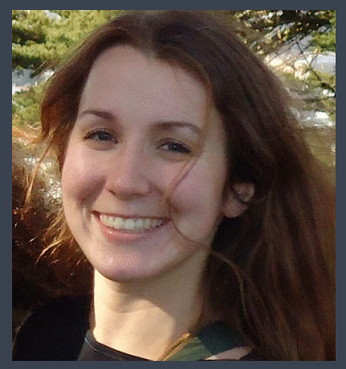
Brad Chapman



Rory Kirchner

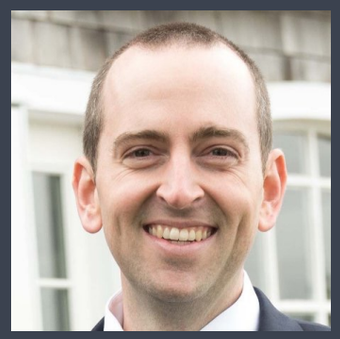
Meeta Mistry

Radhika Khetani



Mary Piper

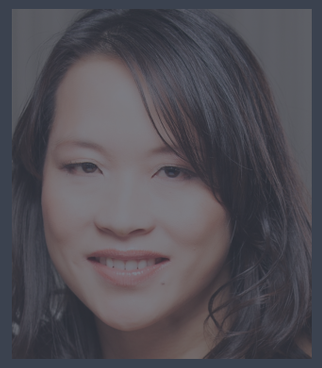
Lorena Pantano



Michael Steinbaugh

Victor Barrera

Peter Kraft



Shannan Ho Sui

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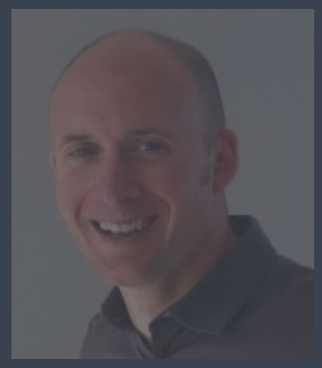
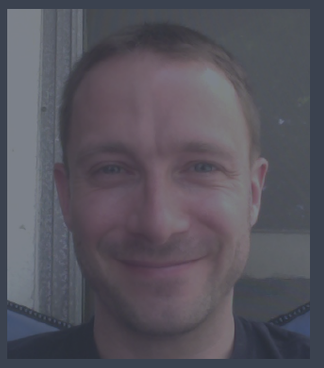


Brad Chapman



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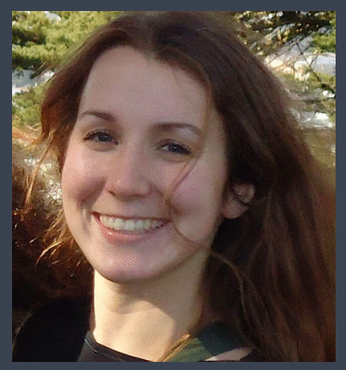

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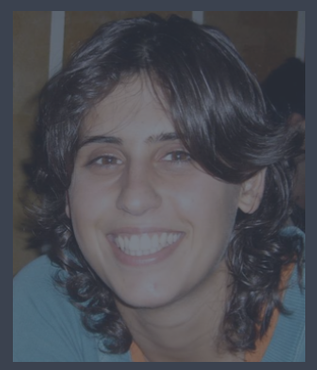

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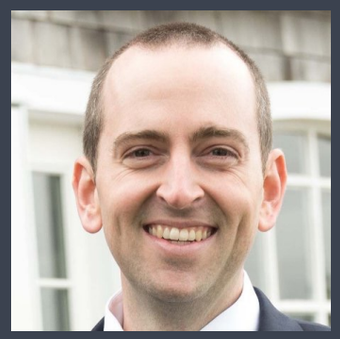
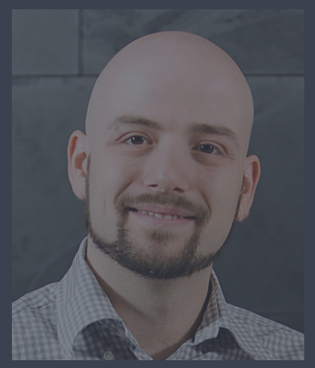
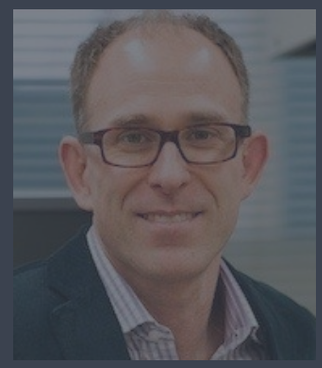


Michael Steinbaugh



Victor Barrera



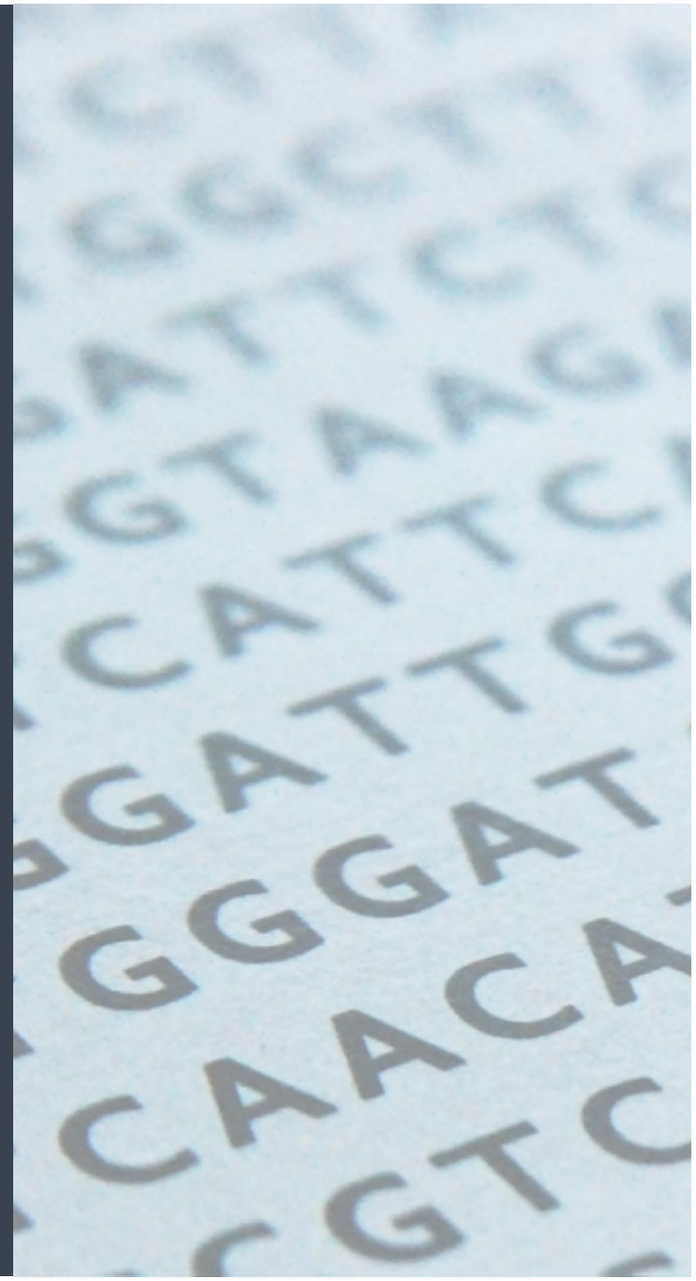
Peter Kraft

Class Introductions!

Consulting

- RNA-seq, small RNA-seq and ChIP-seq analysis
- Genome-wide methylation
- WGS, resequencing, exome-seq and CNV studies
- Quality assurance and analysis of gene expression arrays
- Functional enrichment analysis
- Grant support

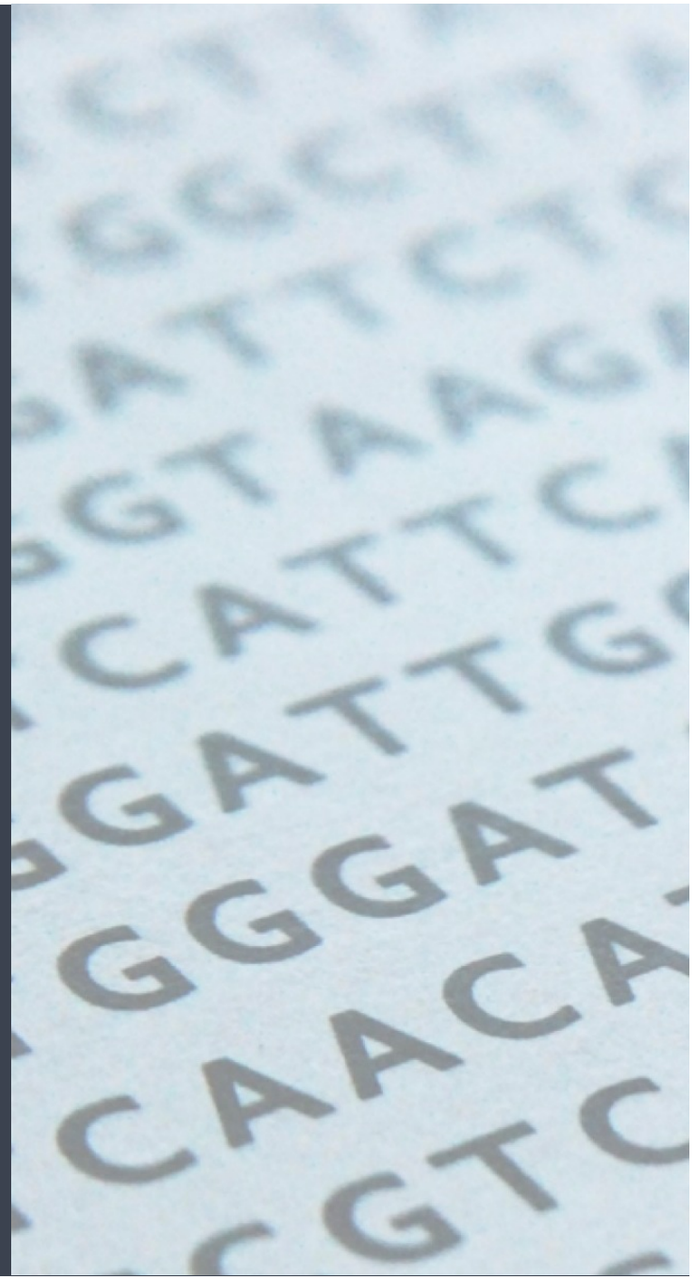
HBC consulting: bioinformatics@hsph.harvard.edu



Training

- Short workshops on introductory, intermediate and advanced topics related to NGS data analysis
- In-depth courses (8- or 12-day formats)

HBC training: hbctraining@hsph.harvard.edu



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 Bioinformatics Core

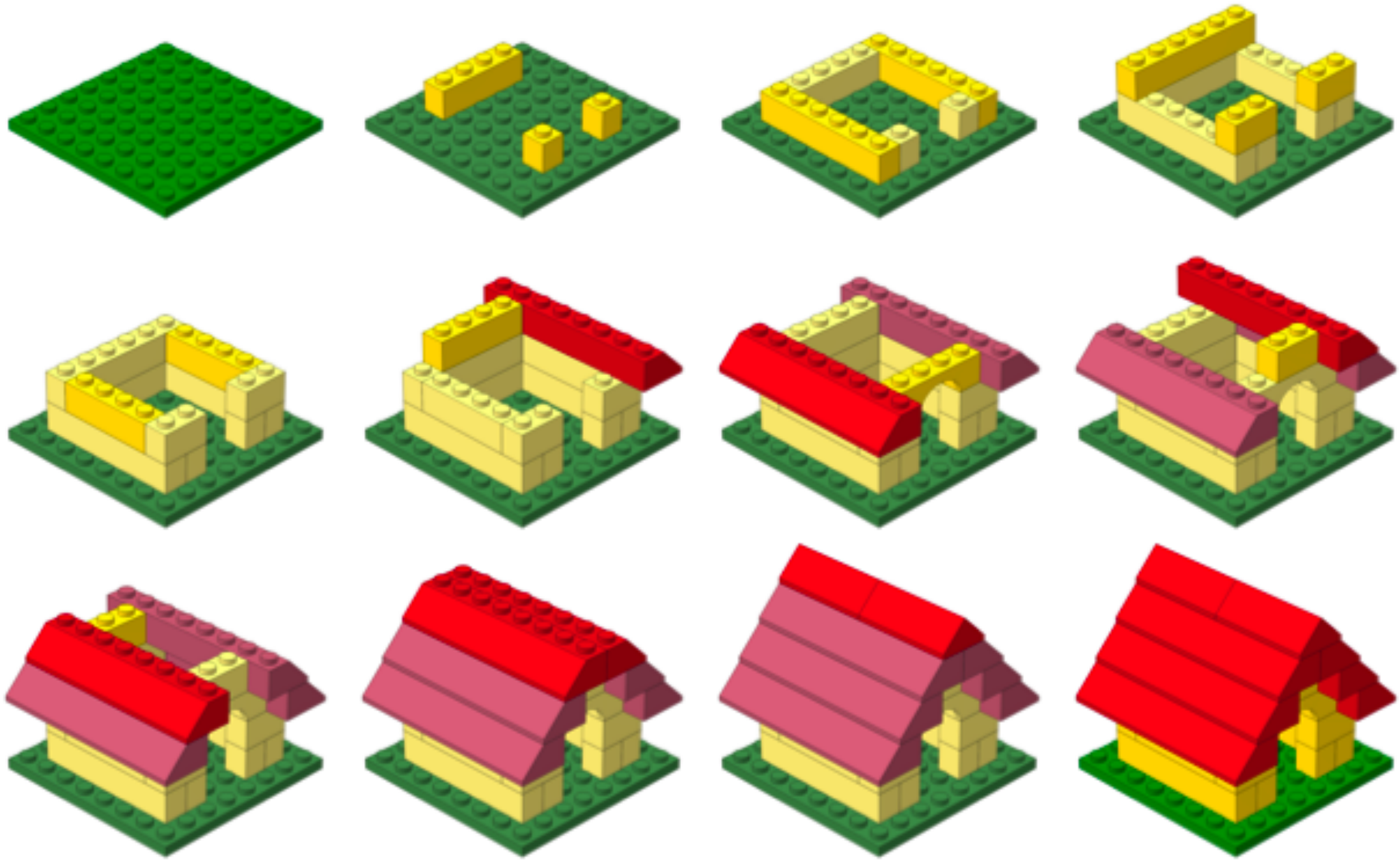
Center for Stem Cell Bioinformatics

Harvard Catalyst Bioinformatics Consulting

Harvard NeuroDiscovery Center

HMS Tools & Technology

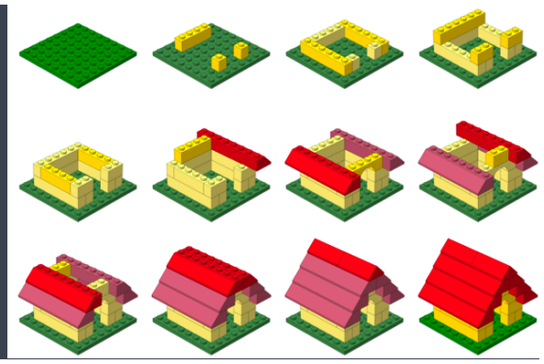
Workshop Scope…



Learning R

http://anoved.net/tag/lego/page/3/

Learning Objectives



- ✓ Become comfortable with 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 simple and complex plotting methods

Contact us!

HBC training team: hbctraining@hsph.harvard.edu

HBC consulting: bioinformatics@hsph.harvard.edu

Twitter

@bioinfocore