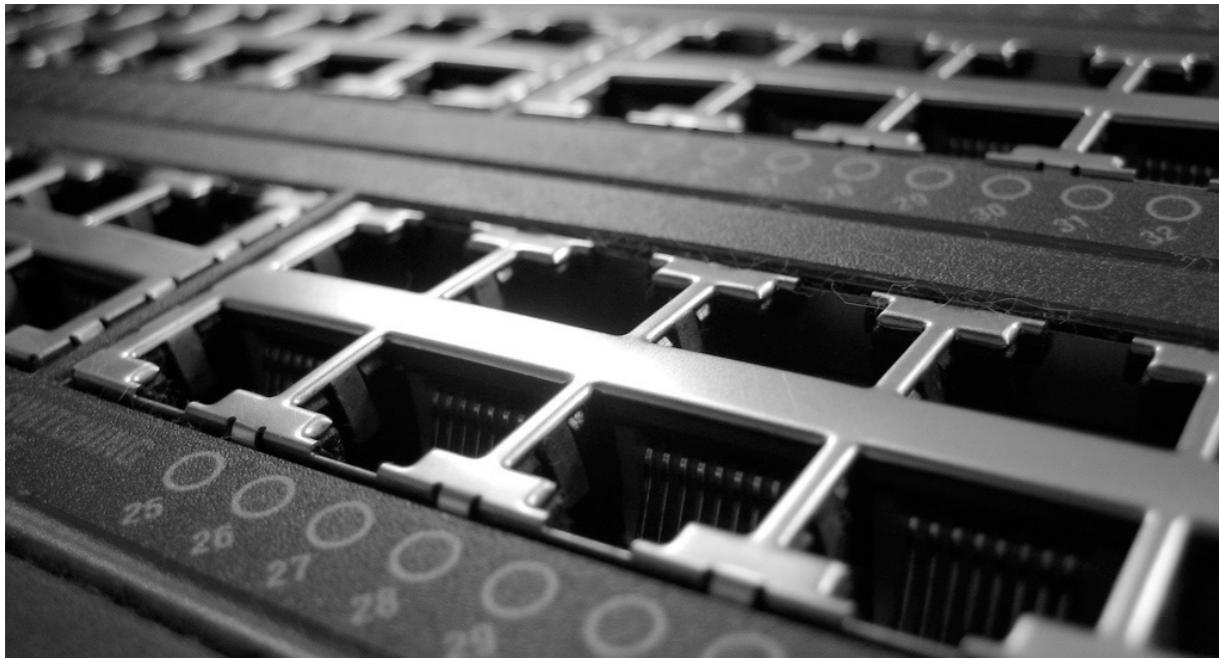


# Current Topics in Bioinformatics

**Sign-in:** <https://tinyurl.com/modules-sign-in>



# Current Topics in Bioinformatics

presented by the

Harvard Chan Bioinformatics Core

*Workshop materials:*

***<https://hbctraining.github.io/Training-modules/>***

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

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



**HARVARD**  
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INSTITUTE

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THE HARVARD CLINICAL  
AND TRANSLATIONAL  
SCIENCE CENTER

**HARVARD**  
MEDICAL SCHOOL

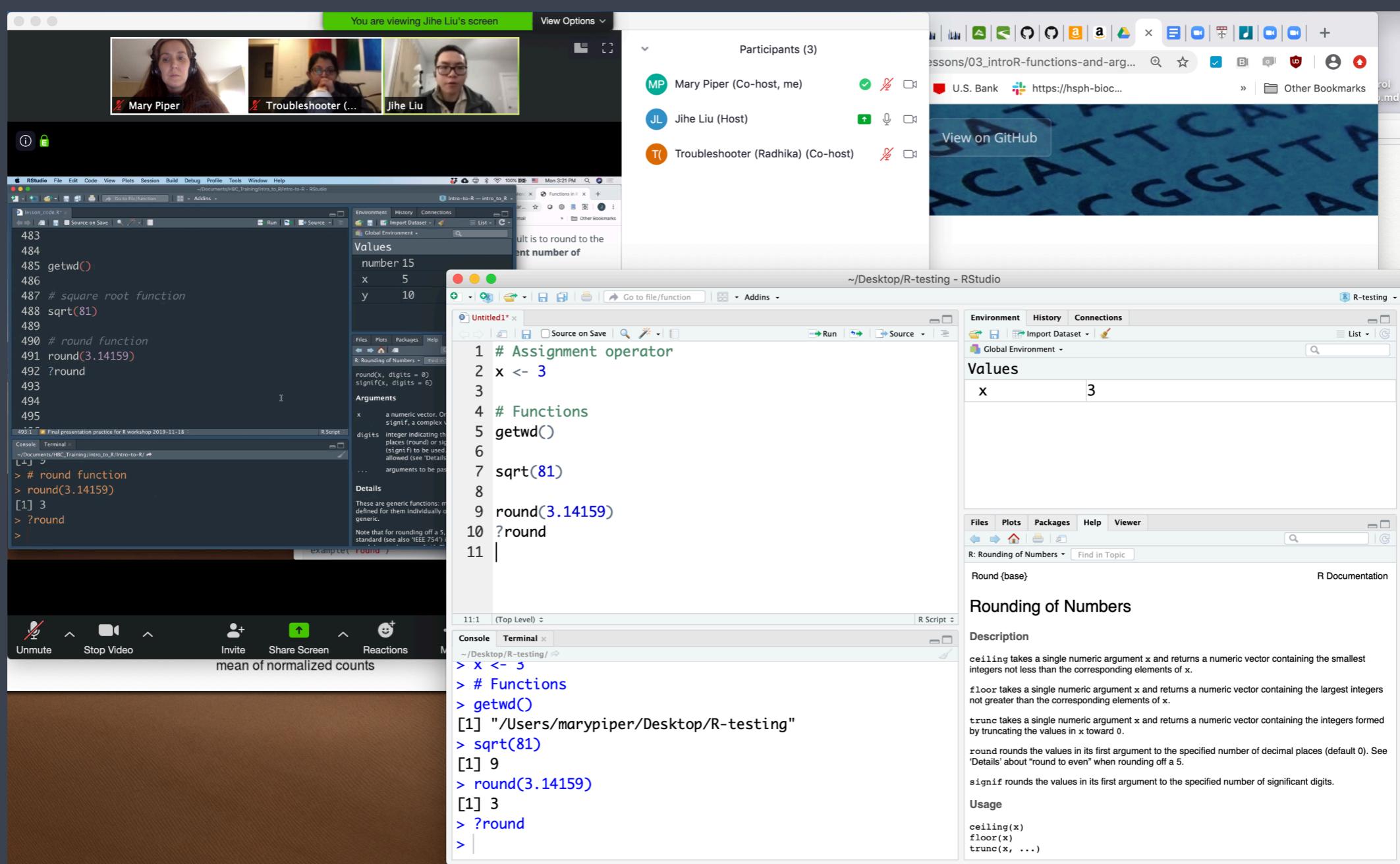
## Training

- Introduction to **command line** (Unix) and **high-performance computing**
- **Introductory R** and **differential gene expression** analysis
- **In-depth course:** Unix & R, RNA-Seq, ChIP-Seq, and variant calling
- Monthly, short workshops on various bioinformatics topics

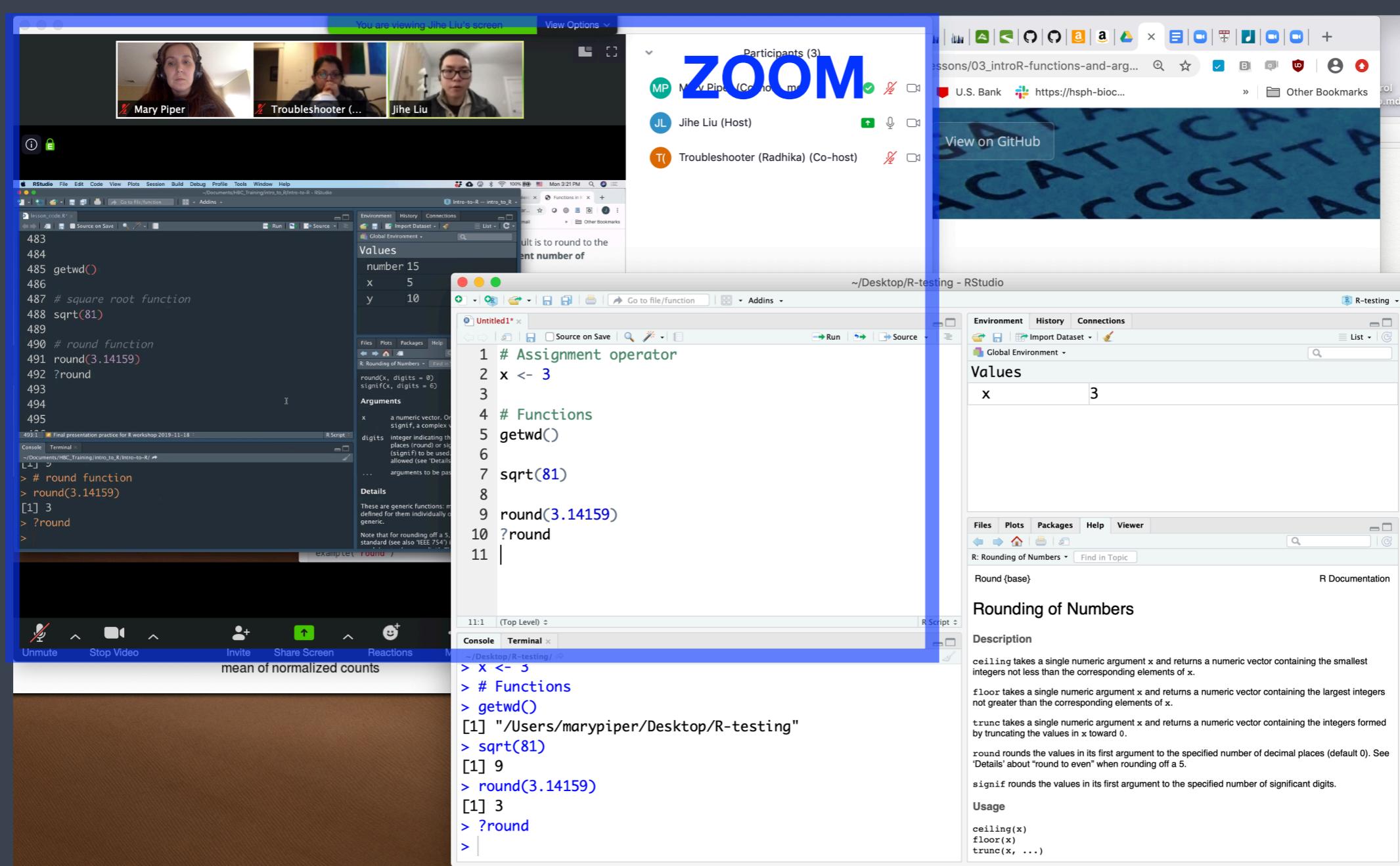
## Consulting

- **Transcriptomics:** RNA-seq, small RNA-seq, scRNA-Seq
- **Epigenetics:** ChIP-seq, genome-wide methylation, ATAC-Seq
- **DNA Variation:** WGS, resequencing, exome-seq and CNV studies
- **Functional enrichment** analysis
- **Exp. design help & grant support**

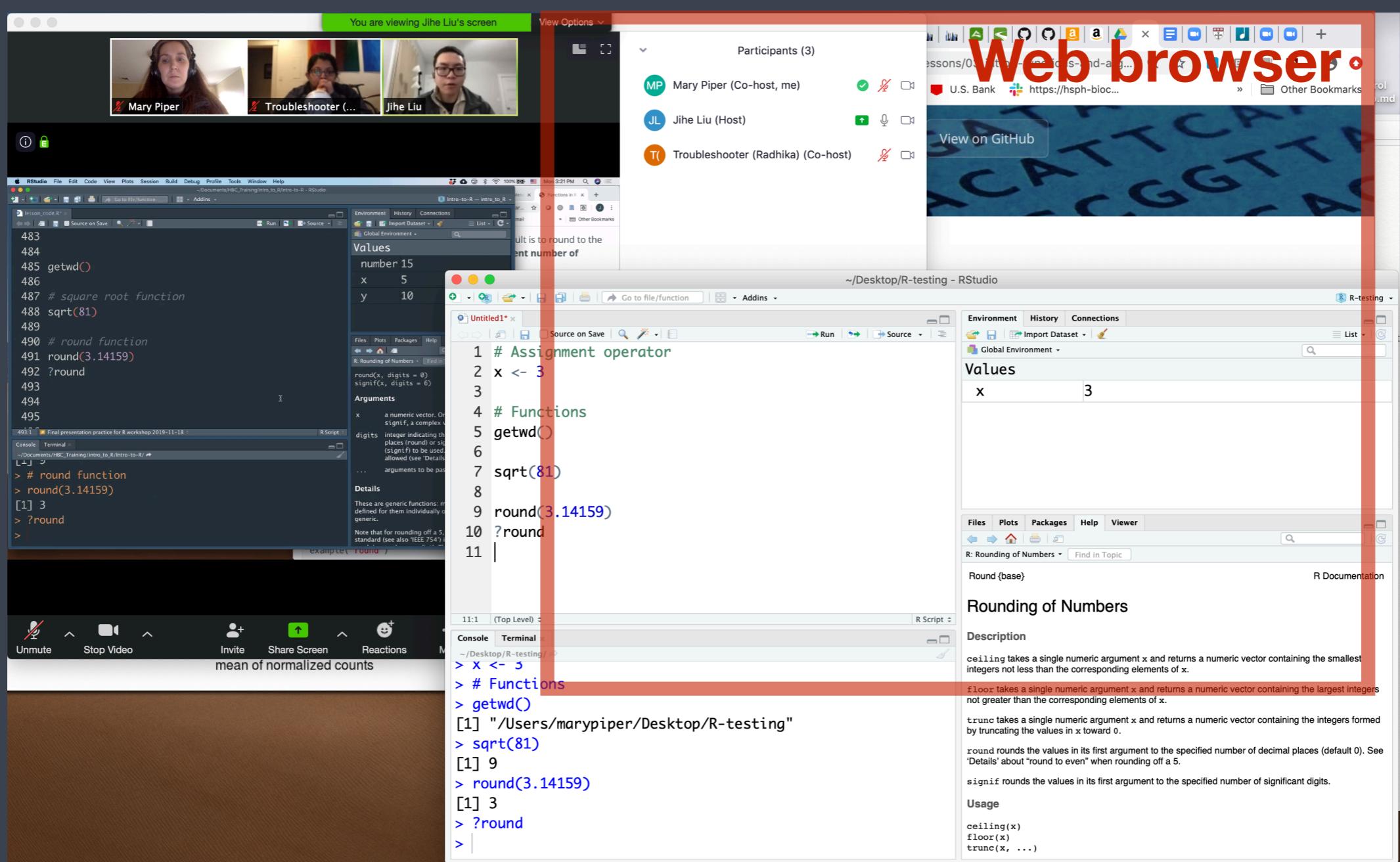
# The 3 Window problem....



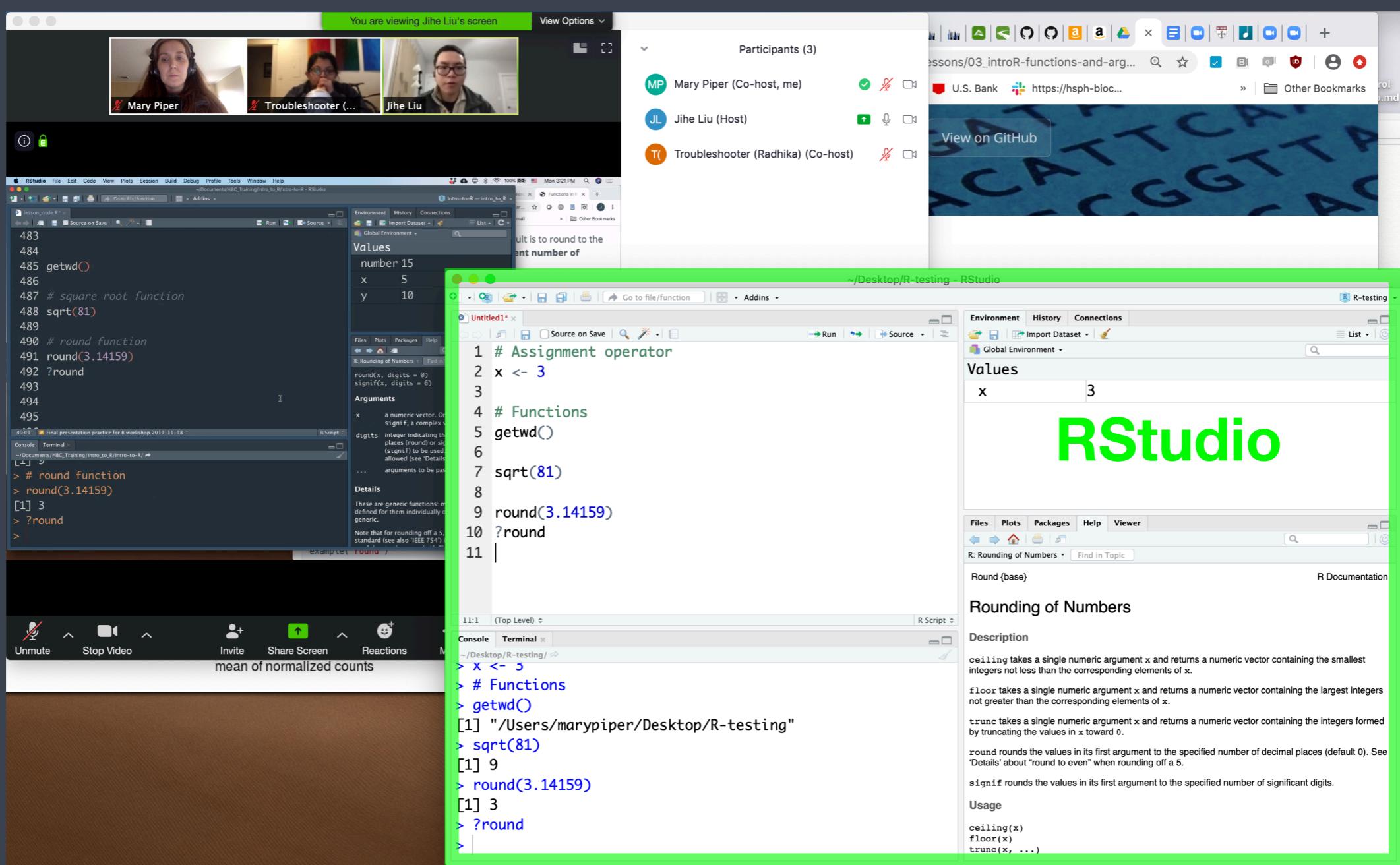
# The 3 Window problem....



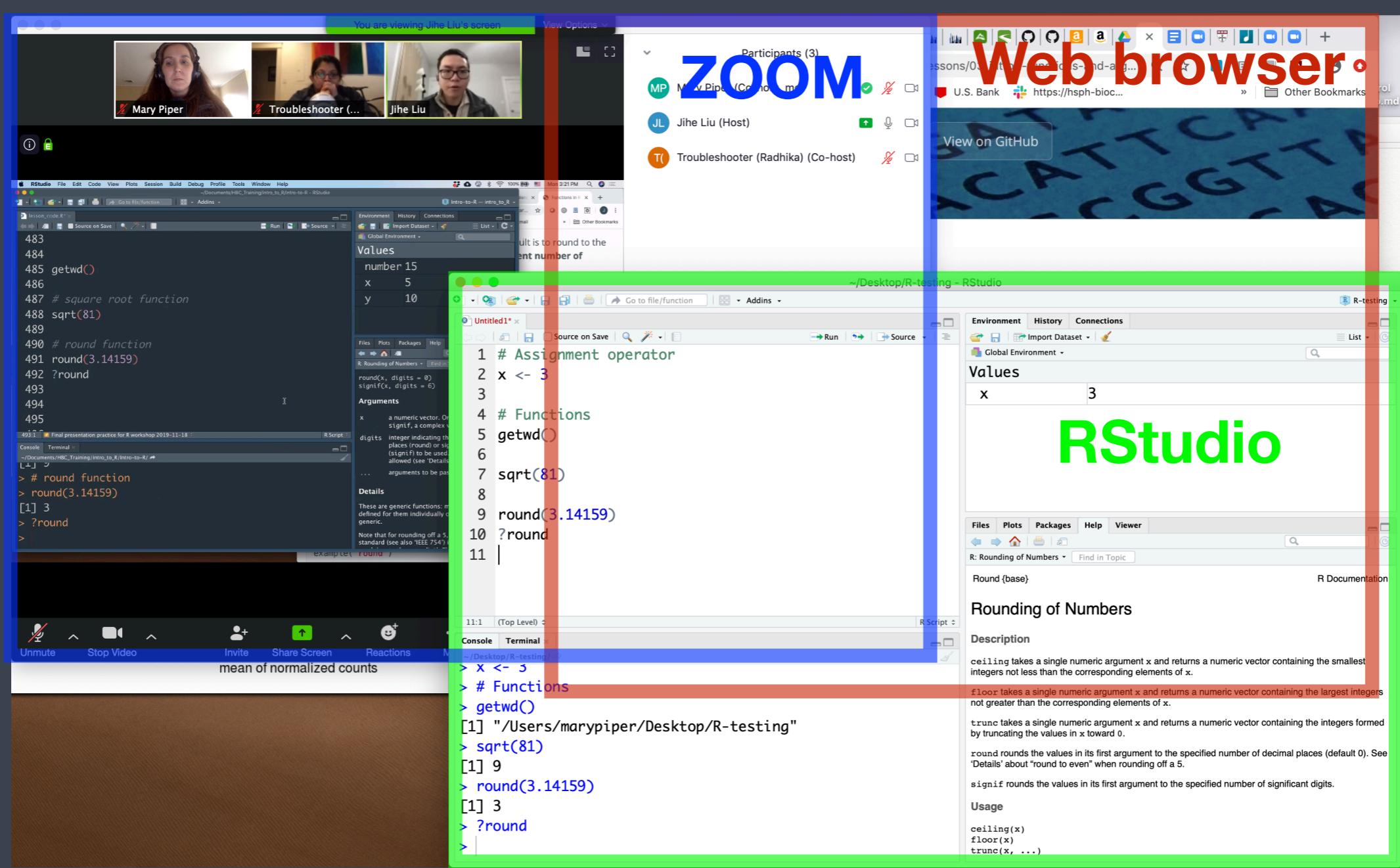
# The 3 Window problem...



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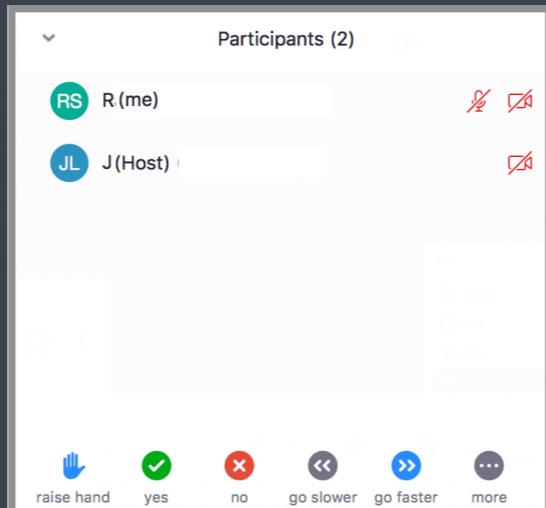


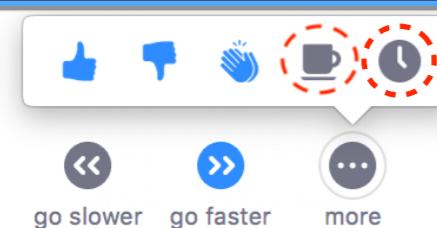
# The 3 Window problem...



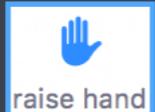
# Odds and Ends (1/2)

- ❖ Quit/minimize all applications that are not required for class
- ❖ Click on “Participants” to open that panel in Zoom



- ▶  = "agree", "I'm all set" (equivalent to a **green post-it**)
- ▶  = "disagree", "I need help" (equivalent to a **red post-it**)
- ▶  If you are away from the computer use the coffee cup or clock icon

# Odds and Ends (2/2)

- ❖ Questions for the presenter?
  - Raise your hand  or post in the chat window to Moderator
- ❖ Technical difficulties with R or RStudio?
  - Open the chat window and start a chat with the host/Troubleshooter with a description of the problem.

# Upcoming HBC workshop & events

*Upcoming workshops:*

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

*Bioinformatics community breakfasts (TBD):*

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

# Exit Survey

<http://tinyurl.com/hbc-modules>