

Citizen Science with the Fold-It



What is Citizen Science?

- Citizen science is science that any ordinary citizen can help with
- Usually it involves citizens working with professional scientists
- Like what we did last time with Zooniverse

Citizen Science -- Medical Research



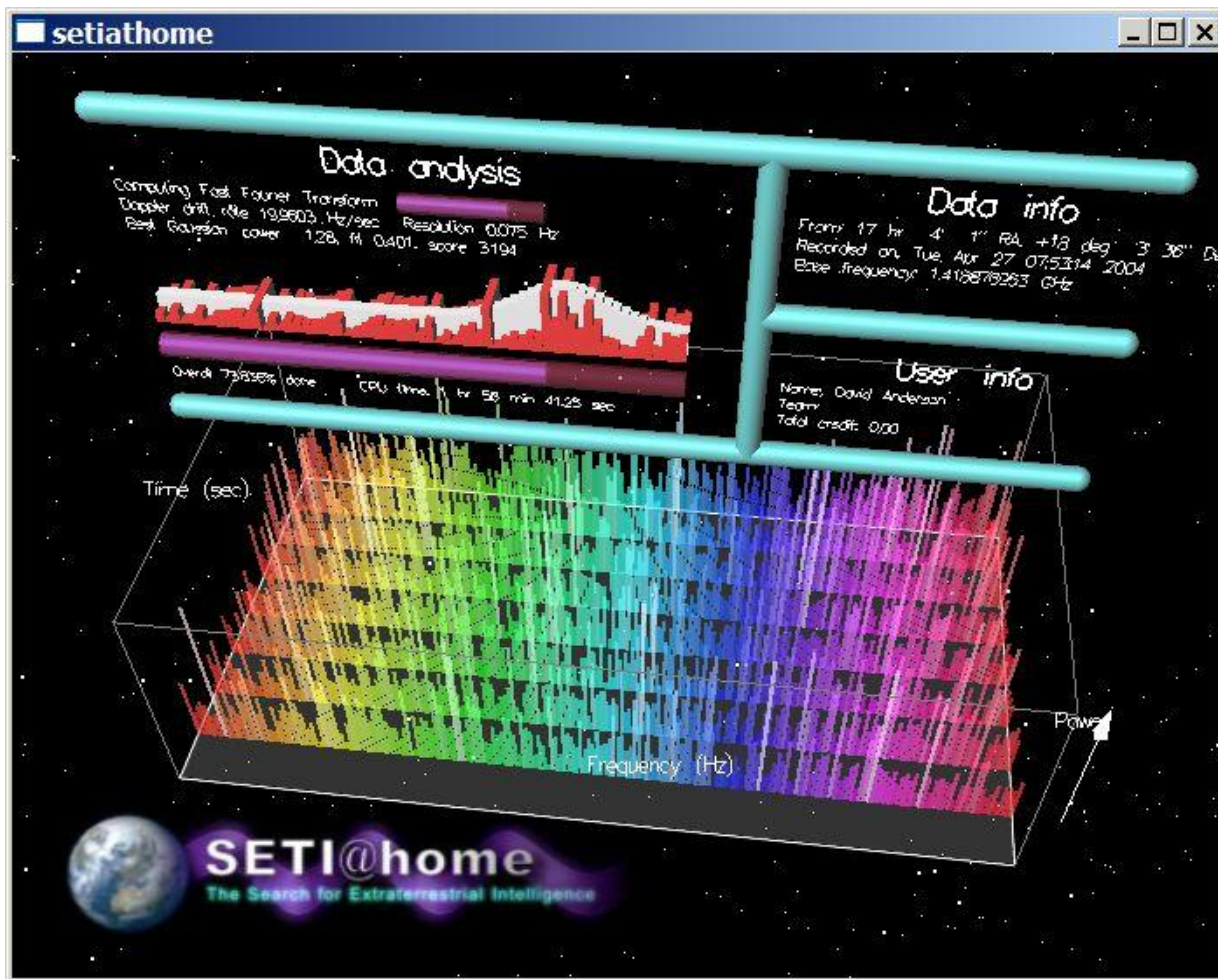
Citizen Science -- Medication Testing



Citizen Science -- Human Behavior Research



Having Your Computer Help With Science Calculations



Helping To Classify Data -- example: Zooniverse

ZOO NIVERSE
REAL SCIENCE ONLINE

THE
MILKYWAY
PROJECT

planethunters.org

GALAXY ZOO HUBBLE

SOLAR
STORMWATCH

MOON ZOO

Playing Video Games -- Example: Fold-It



Video Discussion

- Proteins are sort of like Lego blocks used to build people, except they fold into strange shapes
- Why are people needed for Fold-it? Why can't computers fold the proteins?
- What did the Fold-it players help the scientists do?

Fold-It Demonstration

- Proteins are complex.
- Why the proteins look and behave like this isn't important for now.
- Learning how the game of folding the proteins works is important.

Questions For Me?

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**We Will Discuss About
Your Thoughts At the End**

Let's Try It!

Open Fold-it on the flash drive I gave you



Review/Discussion

1. Did you have a favorite level?
2. Was it hard?
3. Can you think of any other scientific research projects that could use Citizen Science?
4. Other comments about it?

References

1. <http://www.nlm.nih.gov/medlineplus/magazine/issues/spring07/images/clinicalpatient04.jpg>
2. http://www.cvscaremarkfyi.com/sites/default/files/styles/blog_img/public/_DSF5121.jpg
3. <http://www.edgehill.ac.uk/psychology/files/2011/08/PsychologyLab.jpg>
4. <http://cl.jroo.me/z3/f/Z/a/e/a.baa-Cat-using-laptop.jpg>