

What do research advisors get out of this?

What's wrong with traditional classes?

The "sage on the stage" can expound on QG Theory while students, rapt in awe, bask in their new found enlightenment....

or play

Words With Friends





What's wrong with traditional classes?

Classes are an integral part of the developmental process....

... but they don't always evaluate the skills most needed in a research/work environment





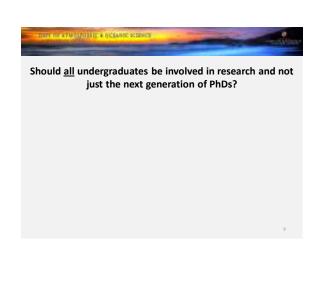
full year senior research project:

Fall Prospectus Defense: 15 minute "conference style" talk* Spring Final Defense: 2 hr poster session*

This is

- a chance to gain valuable, marketable skills
- excellent preparation for graduate school
- stressful (by design)
- an opportunity to showcase abilities not tested for in classes

* Written prospectus and final dissertation also required







Should <u>all</u> undergraduates be involved in research and not just the next generation of PhDs?

YES!

Majority of projects are at grad. student level (cost less, too), 4 published students, many presenting at conferences

Some of the most advanced projects have been completed by students who, at first glance, would not be considered PhD material

Exams, quizzes, term papers don't test for these skills!!!!

THE OWNER AND CONTRACT A DECEMBER SCHOOL SETTING.

Should <u>all</u> undergraduates be involved in research and not just the next generation of PhDs?

What to do researchers advisors get out of students?

- · Willingness to work on "menial" tasks
- · Work on ideas you haven't had time to focus on
- Low cost
- Funding agencies like this
- Enthusiasm(!)

Since inception increasing numbers of local research community wanting to get involved

"Fearlessly Thinking Bigger than Our Background"

Departments should be open to a broader definition of science research

- Pure research, of course
- Operational
- Policy
- Industry/Private sector
- Public health
- Law

Opportunity for employers to guide the training of scientific work force while students are in school

Help departments stay current!





- 13 Day Model Simulation of CO₂ in the D.C. Baltimore region, Summer 2016
 Characterizing Off-Shore Thunderstorms using Lightning and Satellite
- Observations

 Identifying Stratospheric Air Intrusions and Associated Hurricane-Force Wind
- Events over the North Pacific Ocean
 The Future of Arctic Freshwater Flux and the AMOC
- Case Study of the Synoptic Environment within the Banded, Heavy Snow Event of 26-27 January 2015 New England Blizzard
- Investigating Changes in Antarctic Intermediate Water in the South Pacific under RCP8.5
- Assessing the Validity of Citizen Scientist Data on Tropical Cyclones from 2005 using Official Observations
- Using MISR Data to Test the HYSPLIT Dispersion Model
- ProbGale: Severe Weather Characteristics over the Ocean

