MathCats Weekly Newsletter

09-10-12

"Leadership and learning are indispensable to each other."
~ John F. Kennedy

MathCats Announcements and Reminders

- Today **September 10th** at **5pm** in **Math 501** MathCats will be hosting a Career Fair Preparation/Resume Building Workshop. This is a great opportunity to help you succeed! It is also worth 2 points for all you MathCat members!

MathCats Upcoming Events

- Tomorrow, **September 11th** Rohit Thomas we'll be giving a talk through the UTA program about Geometry and Topology from **5:30 – 6:30 PM** in **Math 501**. Worth 2 points!
- The next MathCats meeting is **September 24th** in **Math 501** at **6pm**.

National Science Foundation Graduate Research Fellowship Program (NSF GRFP)

This fellowship is a great opportunity to check out for all prospective Graduate Students! You are eligible if:

1. They are US citizens, nationals, or permanent residents.
2. They have completed no more than 12 months of full-time graduate studies (with no credit limit) by August 1, 2011. Or, if they are part-time graduate students, no more than 24 semester hours.

There is a general overview session that is highly recommend if you are interested in Graduate School, and will also be worth 2 points for all MathCats members:

Friday, Sept 14 from 9:00 - 11:00 in the Conference Room of the Slonaker House

Get To Know Your UA Math Department:



Prof. Juan M. Restrepo
Mathematics Department,
Atmospheric Science Department,
Physics Department

"There are two thrusts to my research: I work in geophysical fluid dynamics and in uncertainty quantification. The geophysical fluid dynamics encompasses research into waves and currents in the ocean, climate dynamics, nearshore processes. With my colleagues, my graduate students and post-docs we are presently working on oil slick dynamics and the study of oil spills, such as the Deepwater Horizon explosion and spill in the Gulf Coast.

My work in uncertainty quantification is primarily geared to finding ways to optimizing predictions and forecasts which combine dynamic models and date; the challenge is to design methods that can still make predictions when the models and/or the data has inherent errors and uncertainties.

For fun I have also dabbled in bone and blood cell dynamics, voting theory, earth crust dynamics, hydrology.

I primarily teach in the areas of scientific computing, numerical analysis, applied mathematics."

Symbol to Learn: ∃

Existential quantification; there exists.

Definition: ∃ *x*: *P(x)* means there is at least one *x* such that *P(x)* is true.

Dilbert of the Week:



Have a great week!
-Justin