



**The 2014 Eric Pitman
Workshop in Computational
Science**

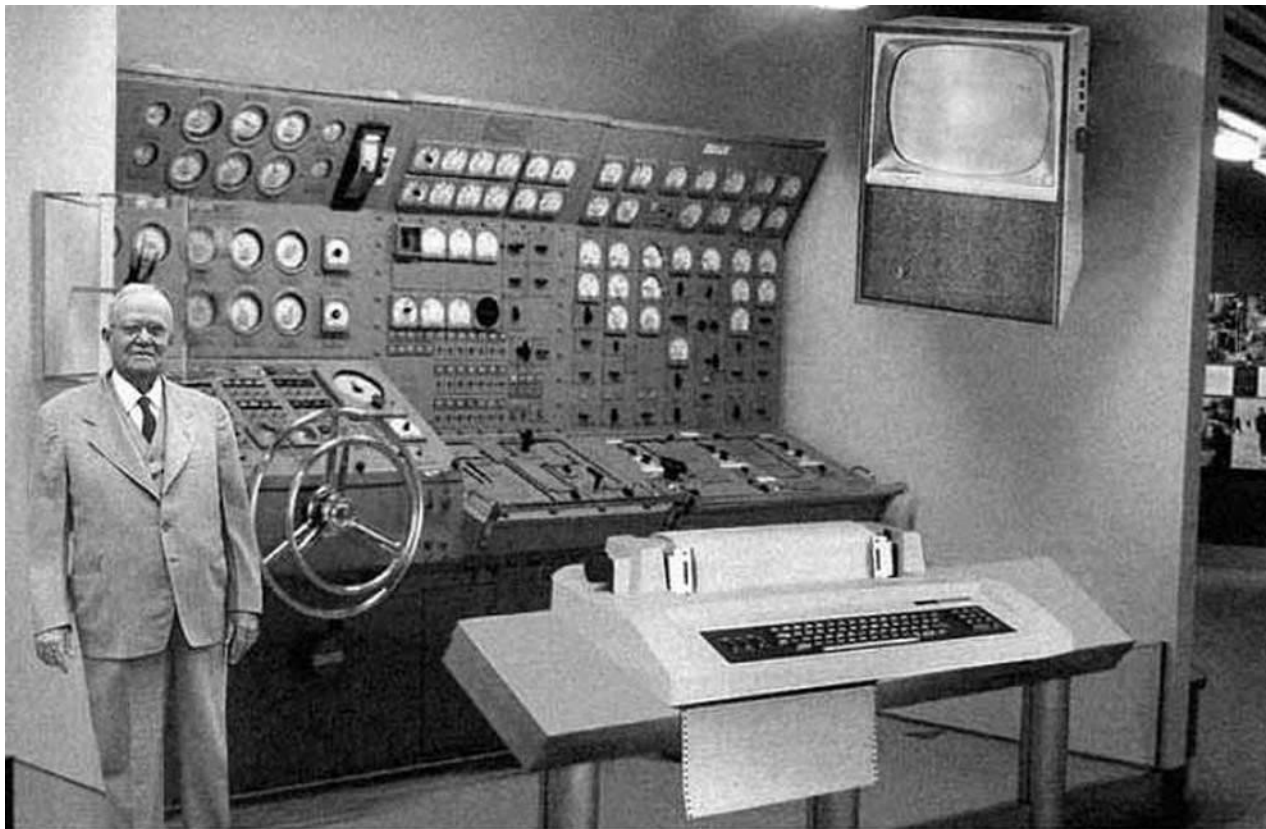


**Kudos to Adrian
Levesque for photos**

 **CENTER FOR COMPUTATIONAL RESEARCH**
University at Buffalo *The State University of New York*

Student Participants

Frontier
Nardin
Nichols
North Collins
Williamsville North
Williamsville South
Williamsville East
St. Joseph Collegiate



Scientists from the RAND Corporation have created this model to illustrate how a "home computer" could look like in the year 2004. However the needed technology will not be economically feasible for the average home. Also the scientists readily admit that the computer will require not yet invented technology to actually work, but 50 years from now scientific progress is expected to solve these problems. With teletype interface and the Fortran language, the computer will be easy to use.





The McGraw-Hill Companies

BusinessWeek

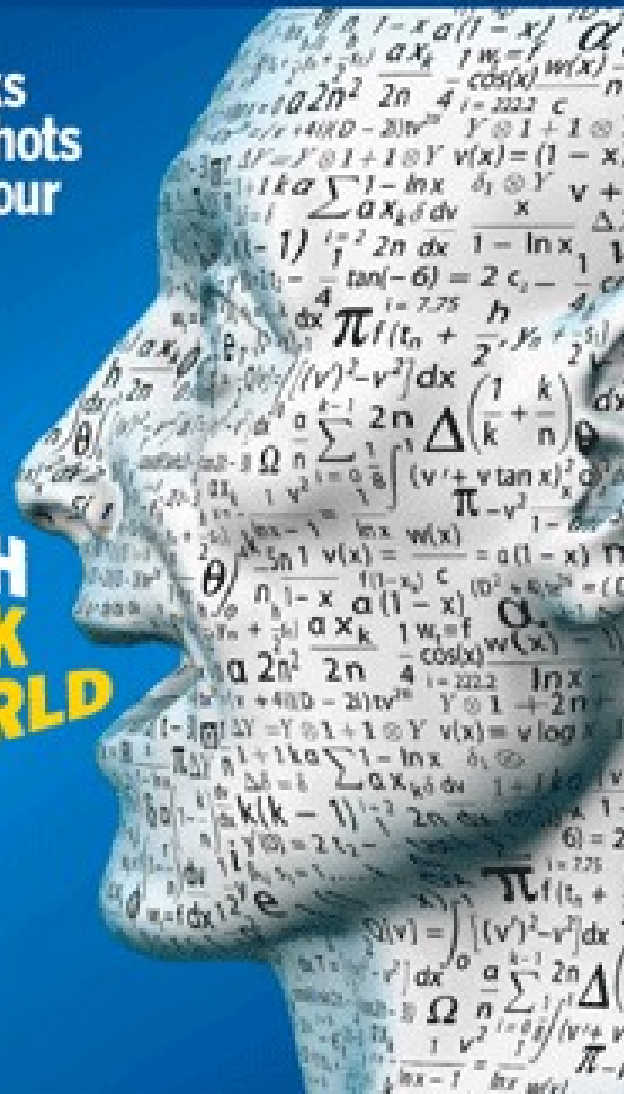
JANUARY 11, 2004

www.businessweek.com

More math geeks
are calling the shots
in **business**. Is your
industry next?

BY STEPHEN BAKER ©54

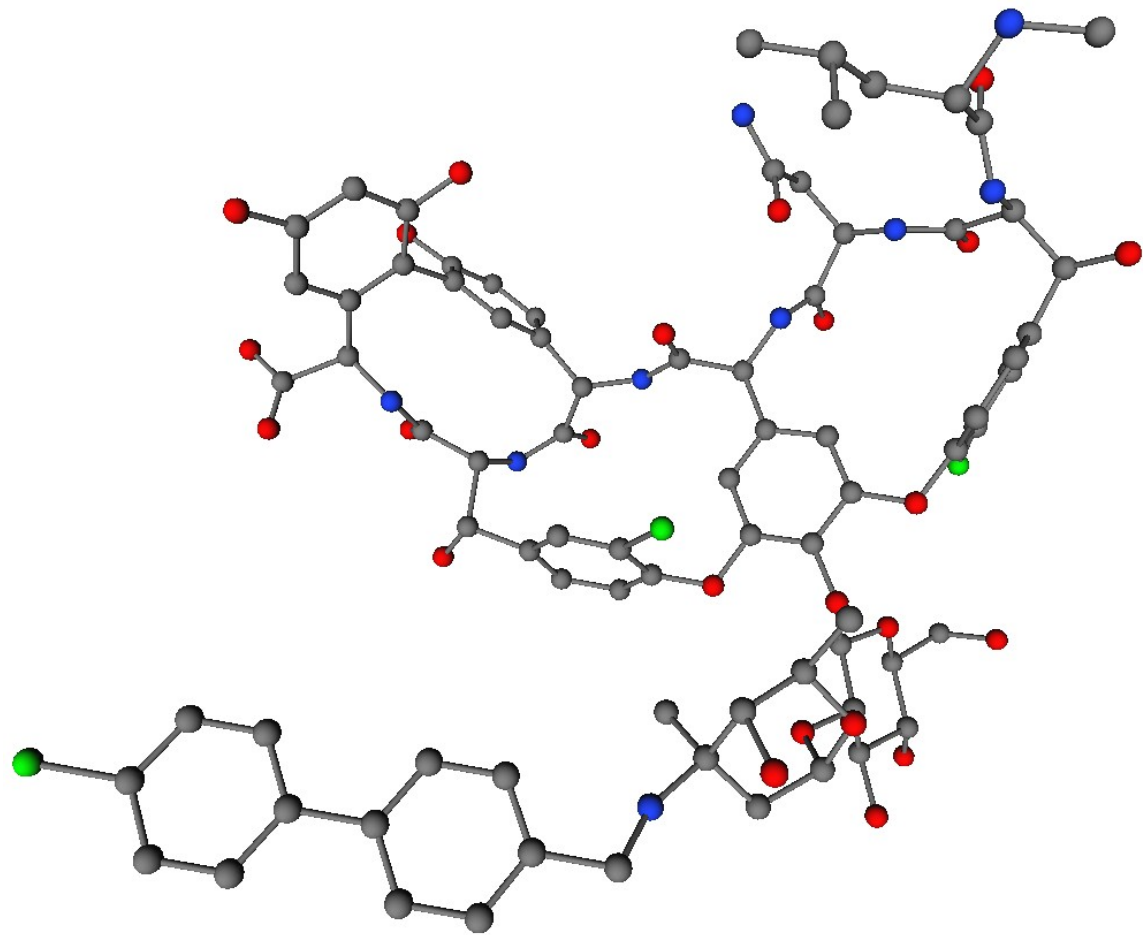
**WHY MATH
WILL ROCK
YOUR WORLD**









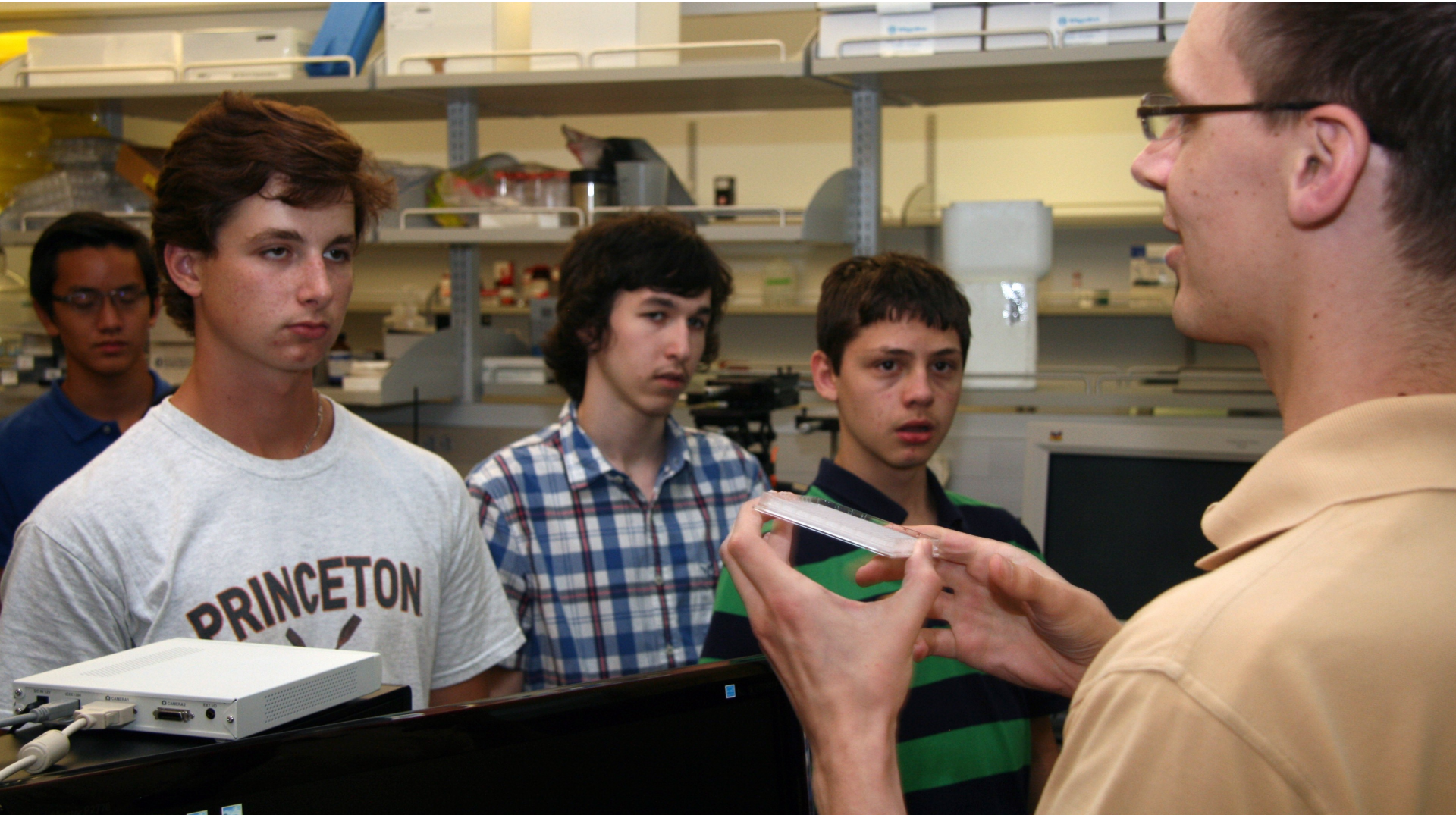




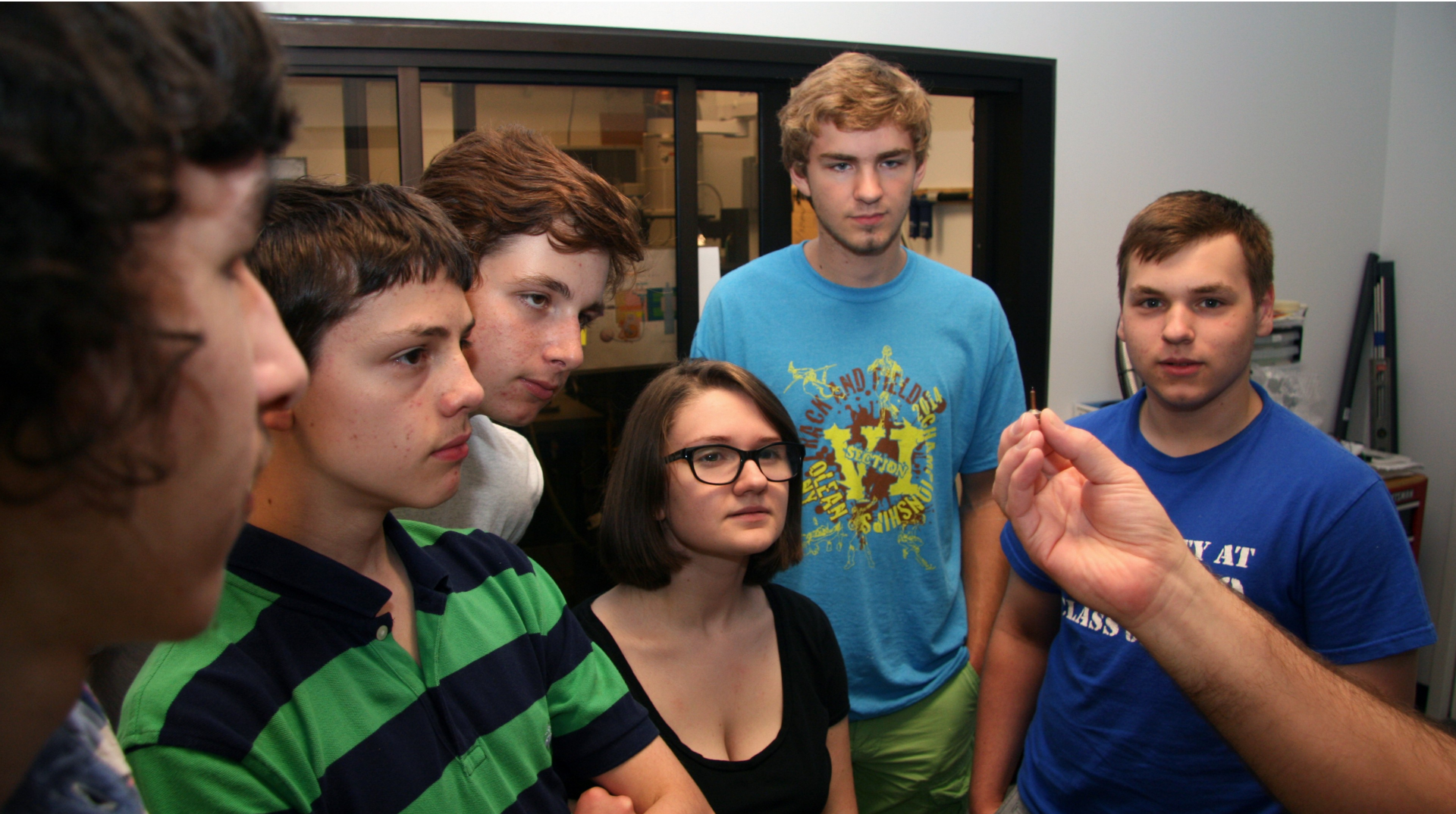










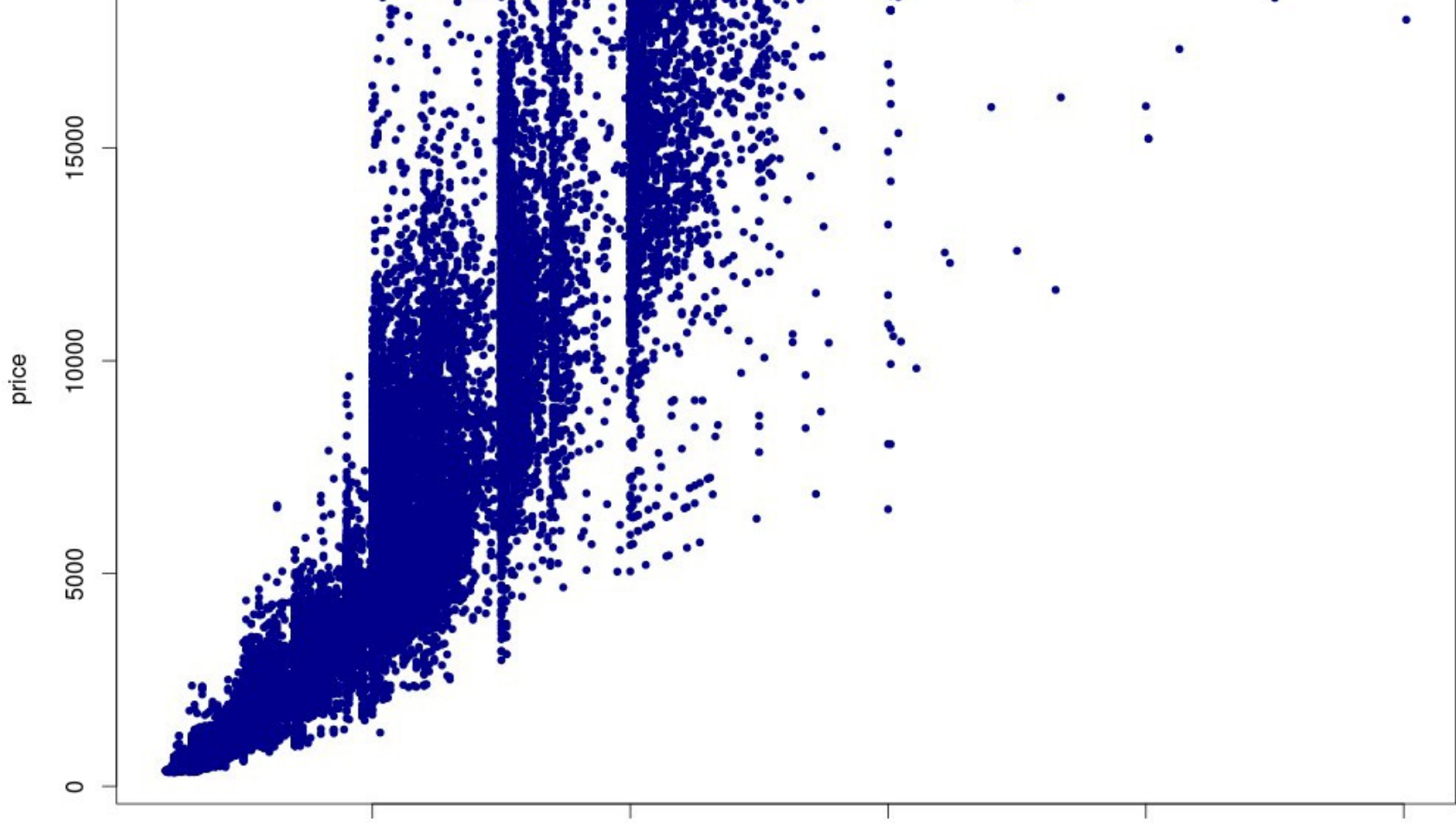




PRINCETON

UNIVERSITY AT
BUFFALO
CLASS OF 2010







```
apply (eelsius, toFahrerkeit)
class (lis)
  ADD RSTUDIO UPDATE MESSAGE
  (... ) { ...
  else { ...
```

```
ctrl-L clear console
(... ) { ... }
  c+f
  }
}
```

```
Mark
Execute
set gasp /
recompiling J!
( )
P...bin
```




Health Informatics



Ahead of the Curve: Health Informatics Specialist

US News and World Report June

2009



1. Self Care
I can monitor my condition regularly and load the results for my GP to see. We can discuss them in my next appointment.

2. My Health Information
I can now review my medical record online in my own time. I can store information and preferences that help clinicians to plan better personalized care for me. I can even do this when I am away from home and need medical care.

3. Better Care
My clinician can make better decisions because they receive up-to-date information on my condition before the appointment.

4. My Health Updates
I get reminders on tests, appointments and screening. Information on my long term conditions is personalized to me.

5. Communicator
I have secure online interaction with my GP, which also enables me to email a request for repeat prescriptions.

6. Appointments
I can see available slots and book an appointment with my local GP Practice Nurse or Hospital at a time convenient for me.

7. Accessibility
I can access all of the HealthSpace services easily and securely, even if I have special access requirements.

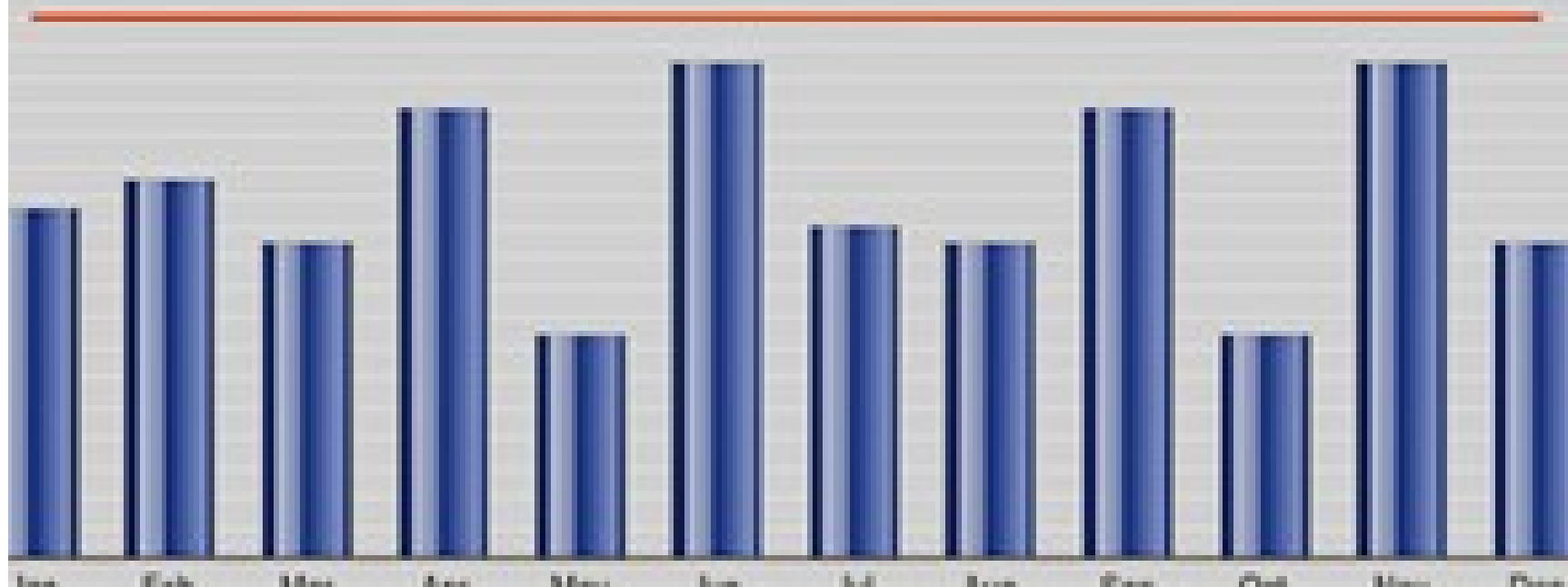
8. Privacy & Security
My records are secure but now I can see who else has seen my information – this gives me confidence in the service.



The intersection of Computing, Mathematics, Statistics, Genetics and Economics

% Diabetics with A1c under control

Monthly Trend



Medical Data

- What is it about?
- Where does it come from?
- What does it look like?
- Example: Statewide Planning and Research Cooperative System (SPARCS)

GROUPS

Matthew
Jim
Jack

Seah
Brian
Lorena







Improved Simulation Through Collaboration

Jeanette Sperhac (jsperhac)

Logout | My Account | 16 New Messages

Rensselaer Polytechnic Institute • Stony Brook University • University at Buffalo • Brookhaven National Laboratory • NYSERNet

HOME	USER INFO	ACCOUNTS	SOFTWARE	ABOUT	RESEARCH GROUPS	HELP! (?)
------	-----------	----------	----------	-------	-----------------	-----------

You are here: Home » Tools » R Studio Tool » About

R Studio Tool

By [Jeanette Sperhac](#)¹, [Steve Gallo](#)²

1. SUNY at Buffalo 2. Center for Computational Research, SUNY at Buffalo

RStudio is an IDE for the R language. It provides a multipane window environment for statistical computing and graphics in R.

Launch Tool

Version 1.0 - published on 12 Feb 2013

Open source: [license](#) | [download](#)

[View All Supporting Documents](#)

[Add to your favorites!](#)

Share: [f](#) [t](#) [g+](#) ...

[0 Citation\(s\)](#)

About	Citations
-------	-----------

SEE ALSO
No results found.

Category

[Tools](#)

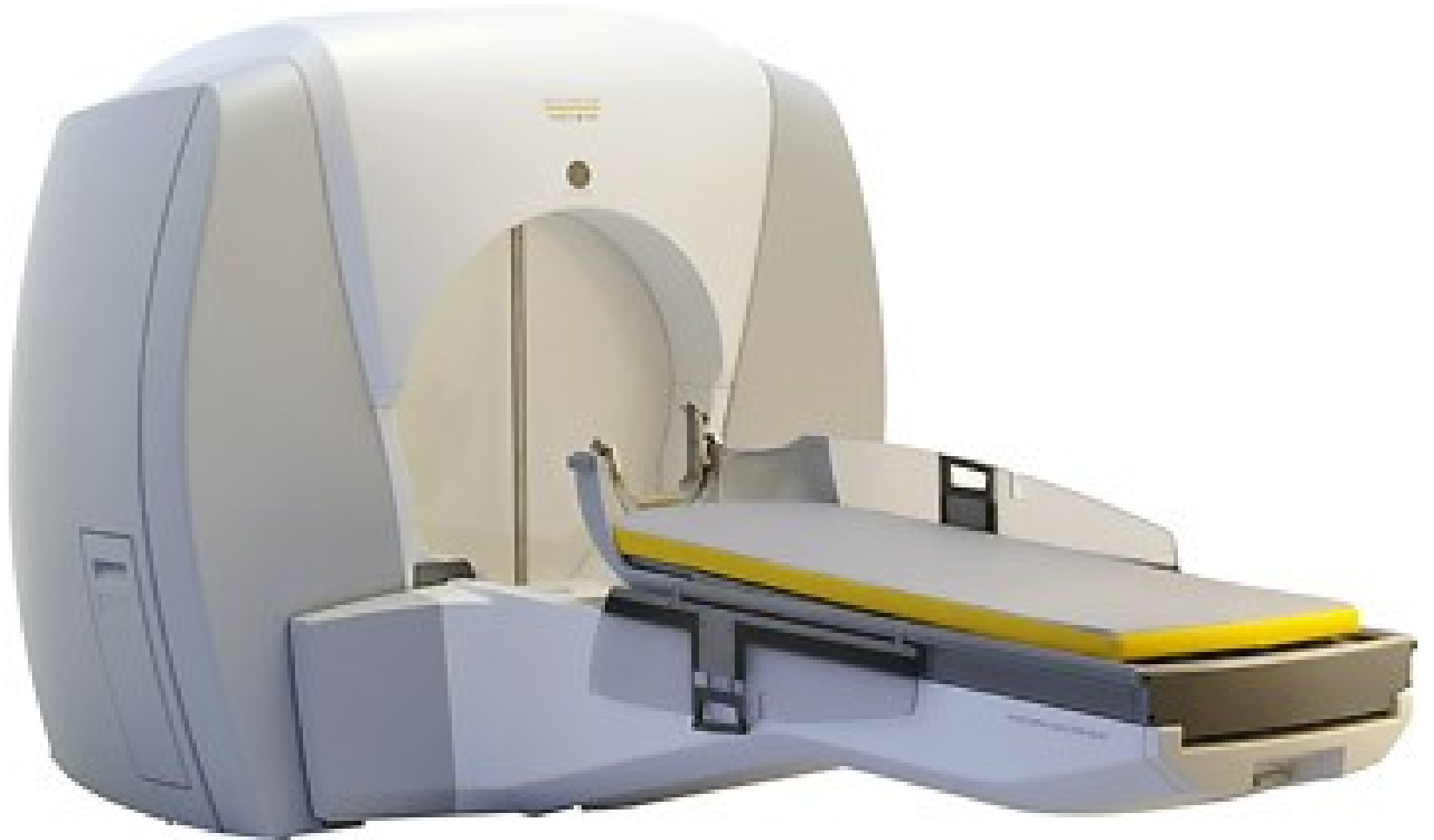
Published on

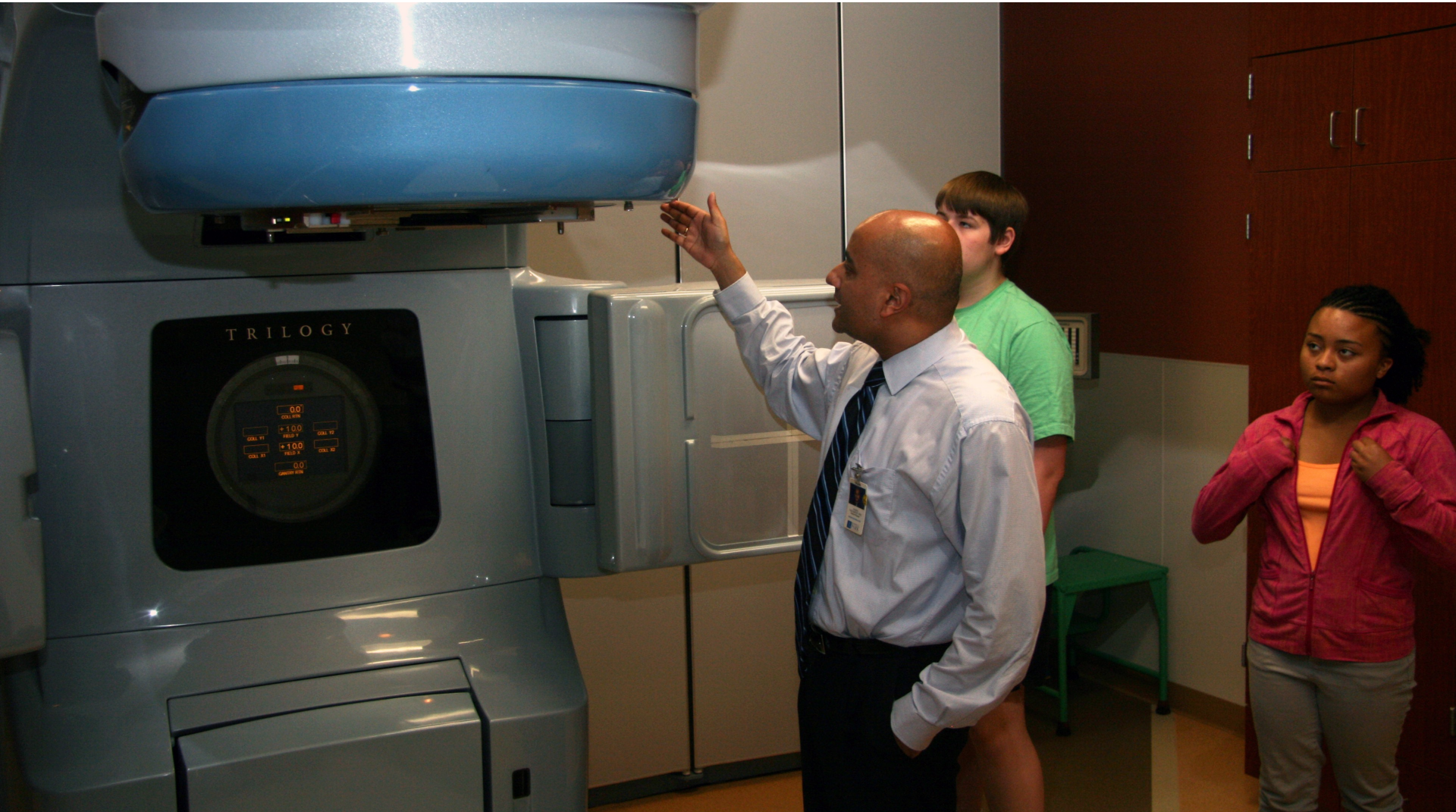
12 Feb 2013

Abstract





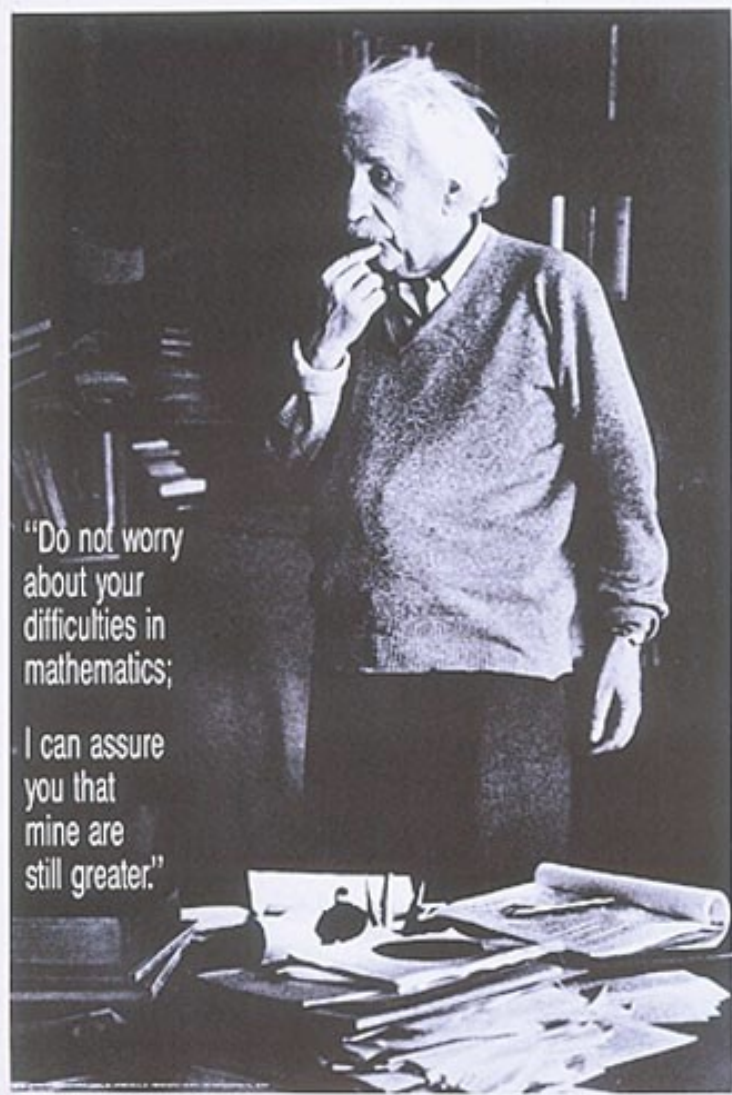












"Do not worry
about your
difficulties in
mathematics;

I can assure
you that
mine are
still greater."

