Developing effective data scientists

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I’m Erin and I’m a data scientist.

...and an alum!

MS in Biostatistics ’08
PhD in Bioinformatics ‘12
effective data scientists communicate well.
Student's to-do:
1. Present your work
2. Blog
3. Teach others
Teacher's to-do:

Center coursework on presentation and communication
Effective data scientists write high-quality code.
The single most useful thing I learned in grad school was how to work with data in Python.

–Sarah Guido, Data Scientist @ Bitly and UM alum
"I wish there had been more emphasis on real data/messy data/getting my own data/cleaning data."

–Trey Causey, Data Scientist @ ChefSteps, @4thdownbot
Student's to-do:

1. Develop deep expertise in a programming language
2. Adopt good coding practices now
Teacher's to-do:

1. Expose students to a variety of datasets
2. Focus on applications
effective data scientists are curious, life-long learners.
LEARN MORE CODING AND STATISTICS. Meet other people working on data sets not in your field. Learn something not in your field. Don't sit in a box staring at your thesis project.

–Wendy Grus, Technical Data Analyst @ Inrix and UM alum
I took Naval Criminal Law & international relations. It was hard to stay awake. By comparison, I looked forward to vector calculus and loved Matlab. Lesson: Don't be afraid to explore your options while you are still on the track of figuring out what comes next.

–Amanda Casari, Senior Data Scientist @ Concur
Boundaries between disciplines are becoming less-defined. There are general, powerful patterns of thinking that apply to many disciplines. A good way to become aware of these patterns is to broaden exposure to disciplines.

–James Pestrak, Senior Data Scientist @ Nordstrom
Student's to-do:

1. Pursue academic interests outside your discipline
2. Go to meet-ups!
Teacher's to-do:

1. Teach with diverse datasets
2. Illustrate parallels between disciplines
Big ups to these effective data scientists

Amanda Casari
Trey Causey
Wendy Grus
Sarah Guido
James Pestrak