



Carnegie Mellon University
School of Computer Science

*Statistics and Computer Science
need each other*

Andrew Moore

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ASA, July 13th, 2016

Stats and Computer Science at CMU

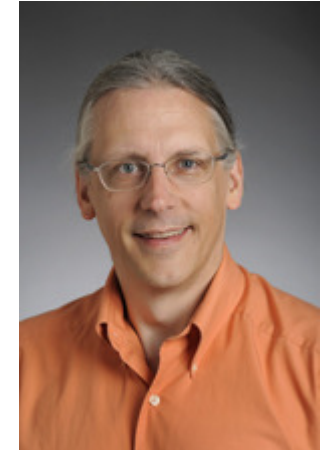
Stats and Computer Science at CMU



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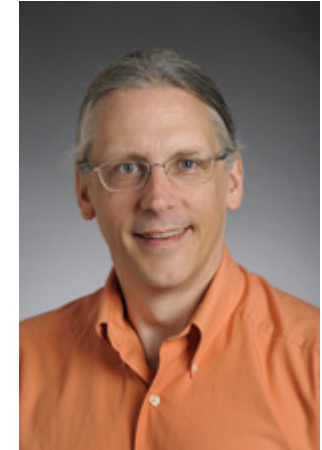
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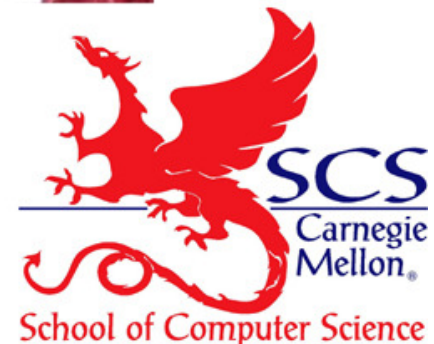
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Stats and Computer Science at CMU

This talk:

- Why does it work?
- What's important in education?
- CMU's evil plan

Why does it work?

- It's not because we have particularly well-adjusted faculties

Why does it work?

- It's not because we have particularly well-adjusted faculties
- It's not because of a clever economics model of sharing resources

Why does it work?

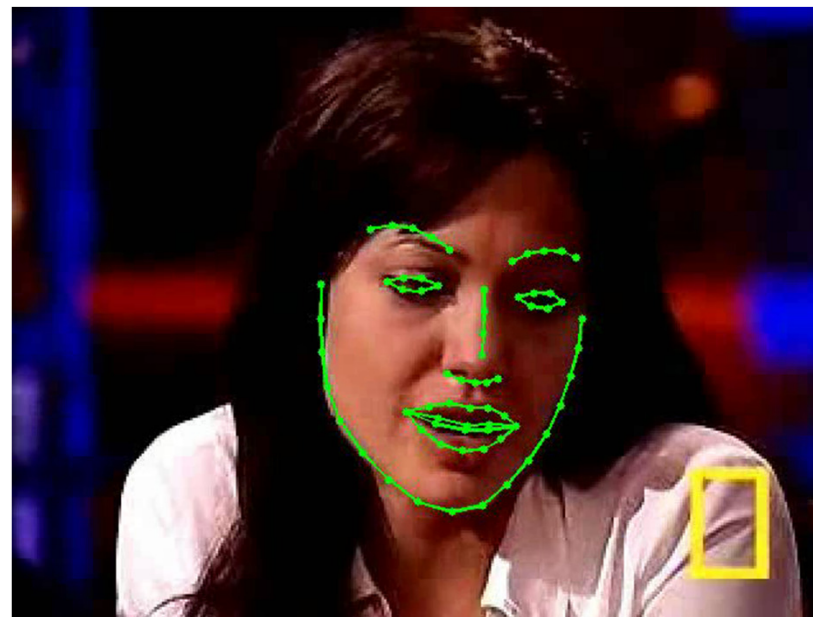
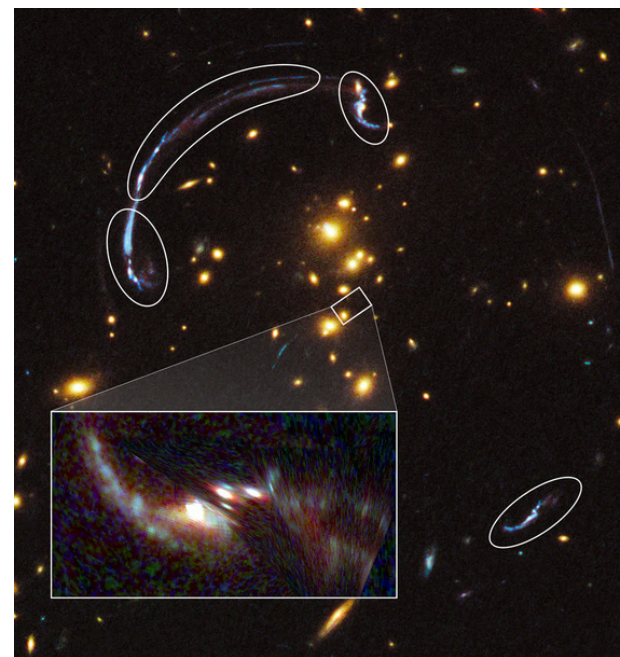
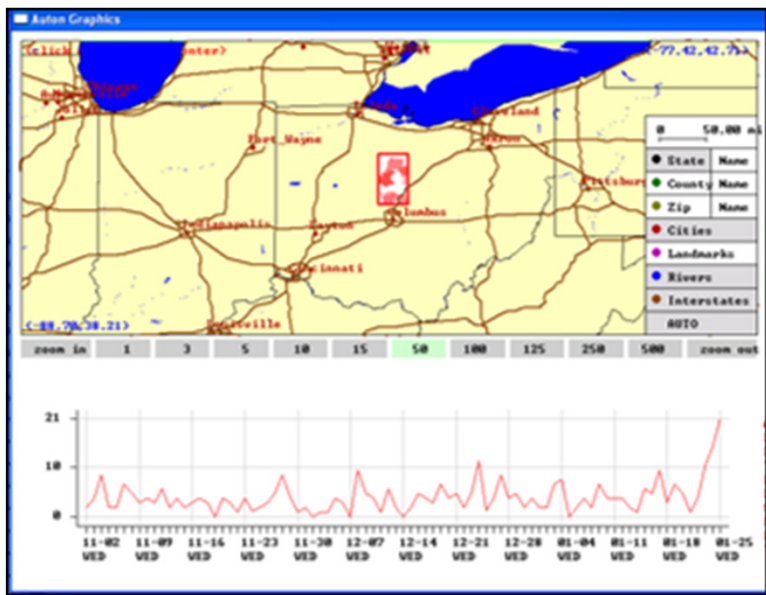
- It's not because we have particularly well-adjusted faculties
- It's not because of a clever economics model of sharing resources
- It's not from creating any joint Centers

Why does it work?

- It's not because we have particularly well-adjusted faculties
- It's not because of a clever economics model of sharing resources
- It's not from creating any joint Centers
- The trick:

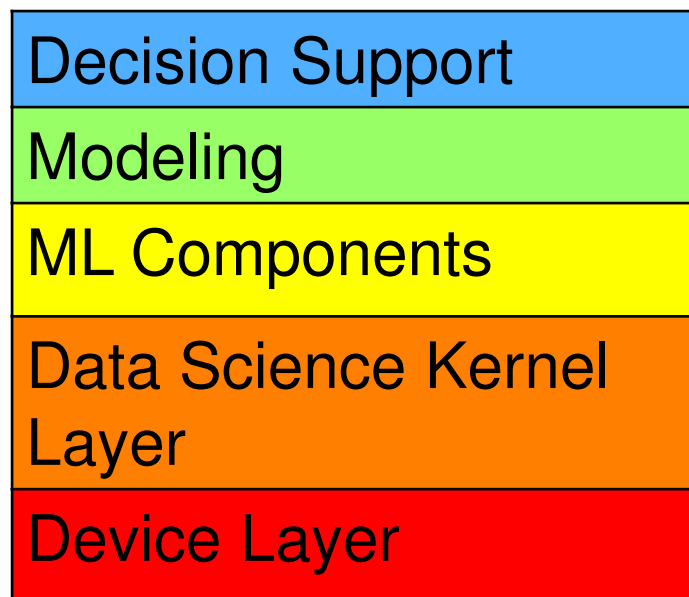
Why does it work?

- It's not because we have particularly well-adjusted faculties
- It's not because of a clever economics model of sharing resources
- It's not from creating any joint Centers
- The trick: Faculty solve big problems together

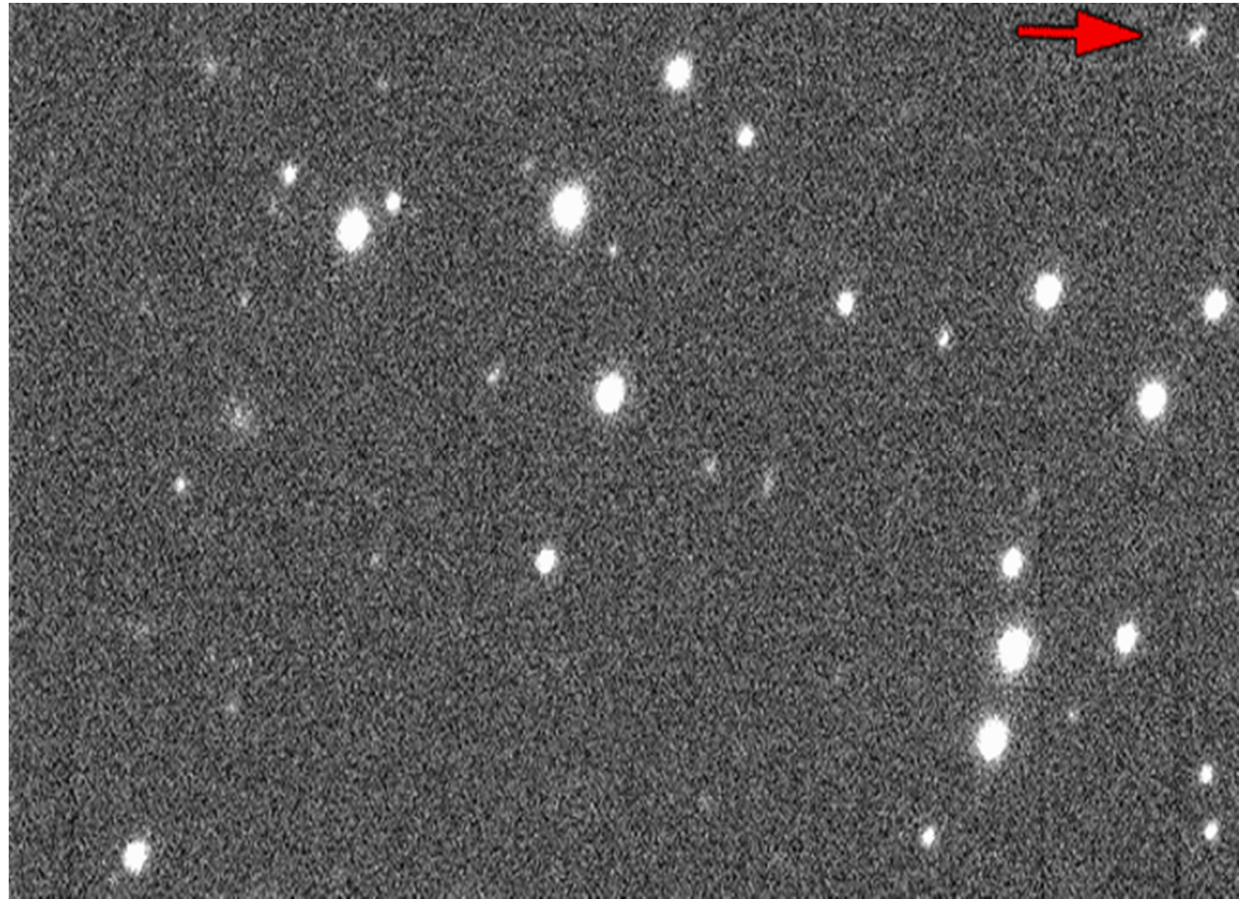


Education

- Machine Learning and big data curricula must begin with probability and stats
- Teacher swaps
- Culture of respect for the full data science stack



This is why you need respect



Panstarr telescope image (Kaiser et al)

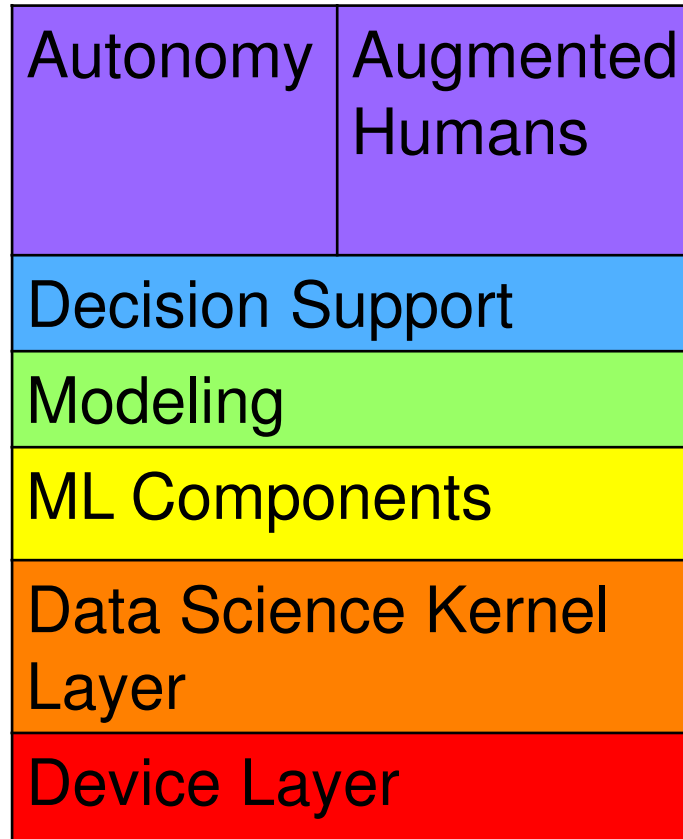


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The top of the stack



CMU's evil plan



Rebecca Doerge: • New Dean of College of Science at CMU

CMU's evil plan



- Rebecca Doerge:
- New Dean of College of Science at CMU
 - Statistician

CMU's evil plan



Rebecca Doerge:

- New Dean of College of Science at CMU
- Statistician
- Not actually evil