

Carnegie Mellon University School of Computer Science



Statistics and Computer Science need each other

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Carnegie Mellon University School of Computer Science









Department of Statistics









Department of Statistics

Carnegie Mellon University School of Computer Science

























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This talk:

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

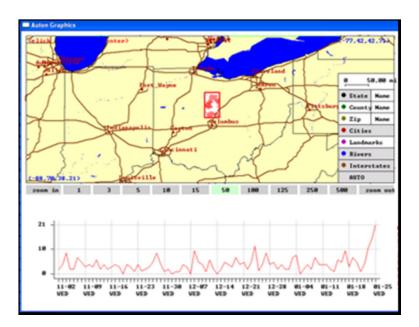
• It's not because we have particularly well-adjusted faculties

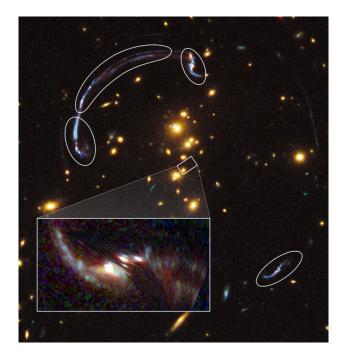
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- The trick:

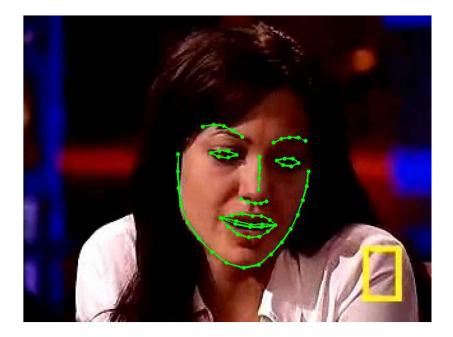
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- It's not because of a clever economics model of sharing resources
- It's not from creating any joint Centers
- The trick: Faculty solve big problems together







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Education

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

Decision Support

Modeling

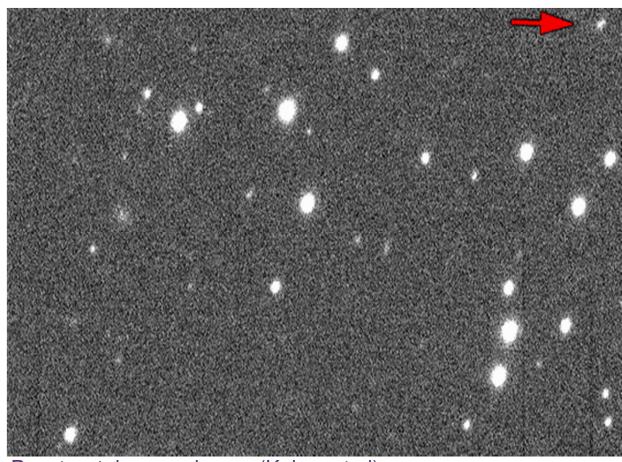
ML Components

Data Science Kernel

Layer

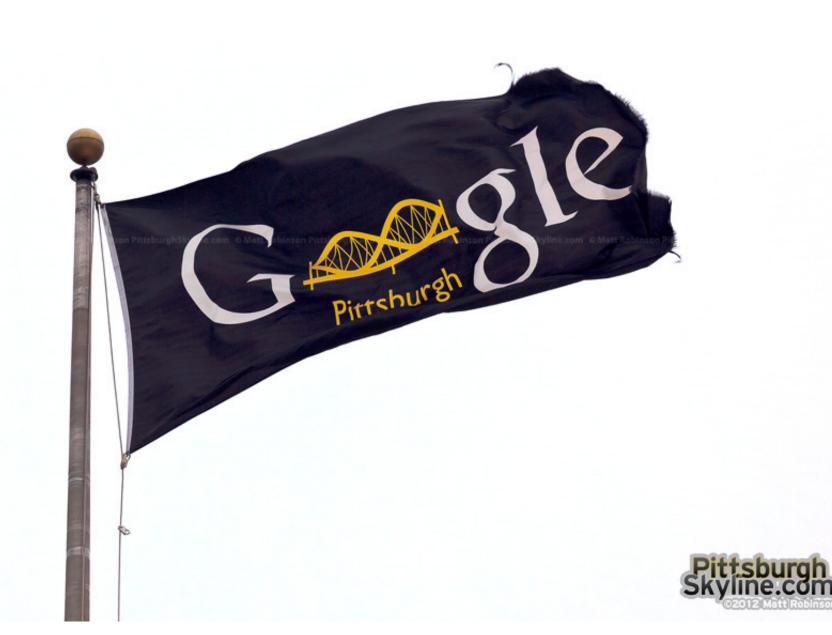
Device Layer

This is why you need respect



Panstarr telescope image (Kaiser et al)

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The top of the stack











Augmented Autonomy Humans

Decision Support

Modeling

ML Components

Data Science Kernel Layer

Device Layer

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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

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CMU's evil plan



Rebecca Doerge:

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

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