Statistics and Computer Science need each other

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Stats and Computer Science at CMU
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Department of Statistics

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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
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• It’s not because of a clever economics model of sharing resources
Why does it work?

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- It’s not from creating any joint Centers
Why does it work?

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• 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)
The top of the stack

- Autonomy
- Augmented Humans
- Decision Support
- Modeling
- ML Components
- Data Science Kernel Layer
- Device Layer
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

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