

# The Emerging Scholars Program (COMS 1404)

[www.cs.columbia.edu/esp](http://www.cs.columbia.edu/esp)

# Weekly Workshops

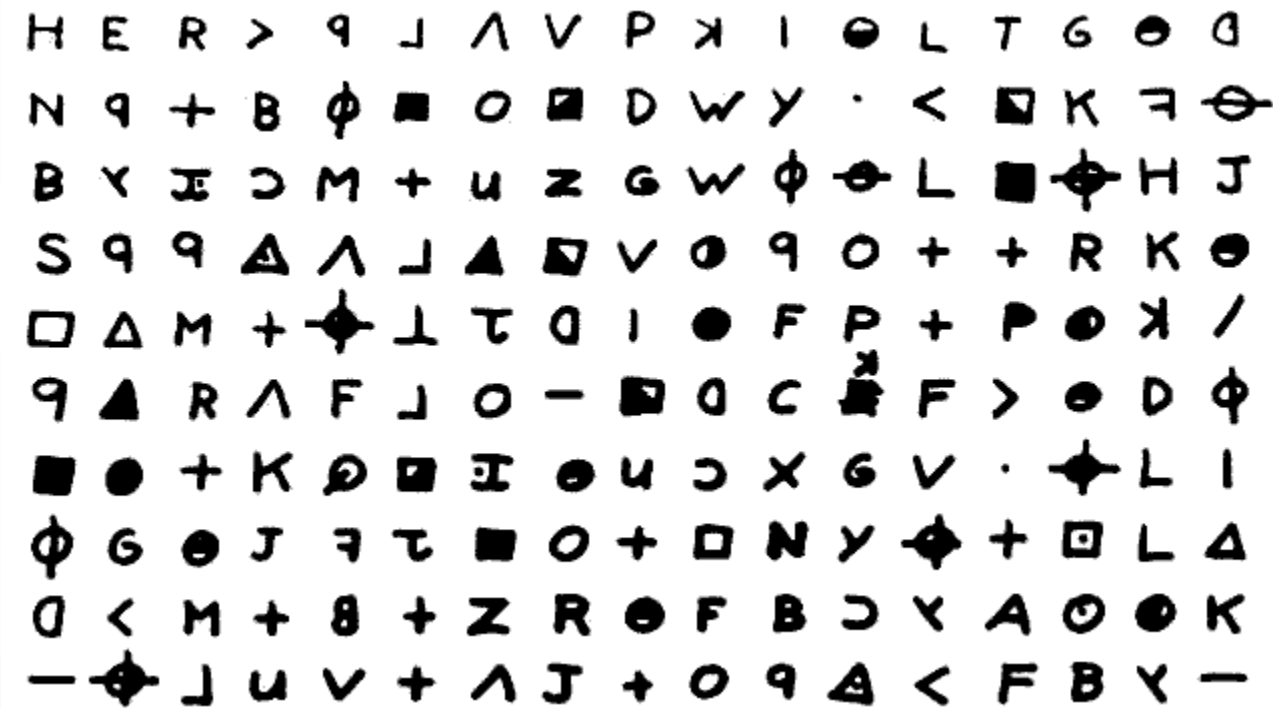
- Intended for students new to CS
- Small groups (8-10 students)
- Led by an undergraduate peer leader (a senior CS major)
- Introduction to exciting CS topics
- Discussion and group problem solving
- No homework; No programming
- Meets for 75 minutes on Fridays

# About ESP

- An introduction to the kinds of topics you will see in upper level CS classes
- Learn about current problems in CS as well as general CS problem solving techniques
- 1 credit pass/fail class (COMS 1404)
- A good way to figure out what areas of CS you are interested in
- It is **not** extra help for 1004

# Topics

- Computational Linguistics



How can we use computers to decode ciphers and new languages?

# Topics

- Social Networks



Wait, we can actually *study* Facebook?

# Topics

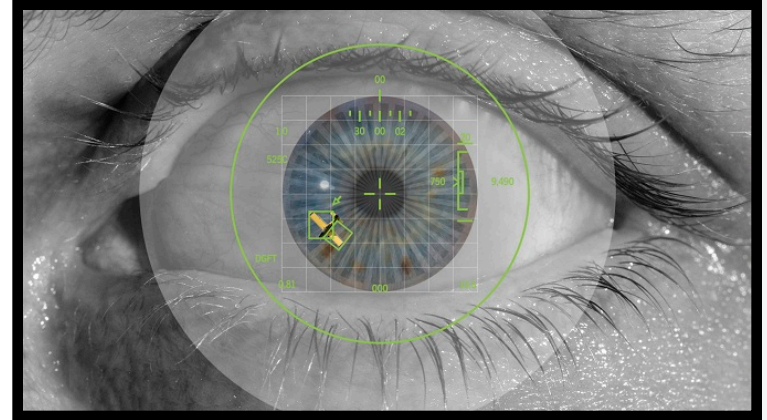
- Big Data



How can computers efficiently run algorithms on massive datasets?

# Topics

- **Biometrics** →
- Computational Linguistics
- Encryption
- Human Computer Interaction
- Big Data
- Spoken Language Processing
- Social Networks
- Puzzles and Problem Solving



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- Computational Linguistics
- **Encryption** →
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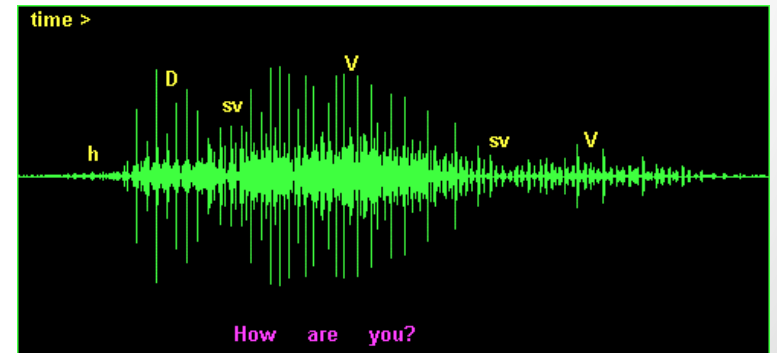
# Topics

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- Computational Linguistics
- Encryption
- **Human Computer Interaction**
- Big Data
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- Encryption
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# Topics

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- Encryption
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- **Puzzles and Problem Solving**



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# Session Times

- All sessions meet on Fridays
  - 10:45am – noon
  - 2:00pm - 2:15pm
  - 3:15pm – 4:30pm

# Apply

- Application available at [www.cs.columbia.edu/esp](http://www.cs.columbia.edu/esp)  
an email you'll get today from Prof Cannon
- Intended for first or second year students
- No previous computer science background is assumed
- The application is short
- Due tomorrow (Tuesday the 9<sup>th</sup>) at 10pm
- Typically there are more applications than slots

Thank You.

Any Questions?