Project

- Wednesday: Workshop
- Following Tuesday: Presentations
  - 9 Minutes
  - 2 Minutes for questions
  - Motivate!
  - Baselines!
  - Don’t dwell on what took the most time
Course Eval

- It’s my grade
- Complain about things that need to be changed (e.g., TA)
- Be nice
A Sociological Perspective on ML

- How to write a paper (also useful for project)
- What are the major conferences
- Major journals
- What are the major schools
- What are the major companies
- What are the major sects
Reader 1: Lazy (but brilliant) Reviewer

- Informative section titles
- Takeaways in captions
- Bolding to find important points
- Cite accurately and extensively
Reader 2: Replicator / Thorough Reviewer

- Don’t underspecify technical details
- Source code is best, but don’t rely on it
- Don’t give a whiff of “cheating”
Reader 3: Lay (Dumb) Reader

- Don’t make overly broad claims
- Give the big picture
- Give examples of how it could be used in real life
- Give examples of what it does as black box (input / output)
- If you must use jargon, make sure there’s reference
What kind of paper is it?

- First or best?
- Method / Data / Analysis?
- Why will people cite it next week, next year, next century?
Evidence

- Choose impossible to screw up baselines
- Set things up well: don’t rely on equations
- Quantitative: Error bars
- Qualitative: Random examples
Don’t do stupid stuff

- Use language precisely
- Use language correctly
- Use the right tools
Conferences

- ICML
- NIPS
- ACL
- EMNLP
- CVPR
- INTERSPEECH
- IJCAI
- AAAI
- AISTATS
- ICLR
Journals

- MLJ
- JMLR
- TACL
Schools

- Stanford
- UW
- Columbia
- CMU
- MIT
- TTI/Chicago
Schools

- Maryland
- Stanford
- UW
- Columbia
- CMU
- MIT
- TTI/Chicago
Companies: 1990s

Twentieth Century

- 1990s
  - Microsoft
  - AT&T

- 2000s
  - Google
  - Microsoft
  - Yahoo!

Twenty-First Century

- 2010s
  - Google
  - Facebook
  - Amazon
  - Microsoft
Sects

- Max-Margin
- Theoretical
- Deep
- Bayesian
- Reinforcement
Max-Margin

Bernhard Schölkopf, MPI

Vladimir Vapnik, FB/Columbia

Corrina Cortes, Google
Discriminative Probabilistic

Andrew McCallum, UMass

Mike Collins, Columbia
Theoretical

Les Valiant, Harvard

Rob Schapire, Microsoft
Deep

Geoff Hinton, Google / Toronto

Yann LeCun, Facebook / NYU
Probabilistic Networks

Daphne Koller, Stanford/Coursera

Judea Pearl, UCLA
Bayesian

Mike Jordan, Berkeley

Dave Blei, Columbia
Reinforcement

Leslie Kaelbling, MIT

Mike Littman, Brown
Rising Stars

- Percy Liang, Stanford
- Yisong Yue, Caltech
- David Mimno, Cornell
- Tamara Broderick, MIT
- Kyunghyun Cho, NYU
ML is fun!

- Meetups
- Classes
- Kaggle