Thank you for a great workshop!

- 65 submissions
- 56 reviewers
- 44 accepted papers
- 11 speakers

Thank you to our co-organizers not at NIPS (Isabelle, Eugene, Christoph, Eduoard, Chris)
Topics of Accepted Papers

- Semi-Supervised Learning
- Weak Supervision
- Transfer Learning
- Representation Learning
- Applications
- Multi-Task Learning
- Data Augmentation
- Active Learning
- Self-Training
- Knowledge Distillation
Highlights from the Keynotes

• Multi-task, multi-view---i.e. *coupling*---is critical
  – Tom Mitchell: “At NIPS 2027, we’ll look back and smile that we were tackling the hardest task in ML—learning single fns. in isolation”

• Injection of domain expertise via more informative priors:
  – Beyond L1 reg., GEC, logical constraints, etc.

• More creative, higher-level, and responsive weak supervision types:
  – GEC, logical constraints, feedback on explanations, AL, etc.
Highlights from the Keynotes

• Intersection of structured prediction with weaker supervision

• Use of adversarial techniques
  – For SSL setting
  – Using GANs for SSL, data augmentation and generation via simulation, domain adaptation

• Panel: Insights from the applied side:
  – Selection of appropriate problems for ML
  – Representing label/task ambiguity
  – Replacing versus assisting!
Weak supervision: The New New Alchemy?

• One thing we’re excited about: weak supervision

• Proposition: Turn noisy, low-quality supervision into gold (labels)

• Except here, we do have some theory! What can this help us to engineer?

Excited to chat more about this!