

# CS 730/830: Intro AI

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[Class Outro](#)

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## Class Outro

- The AI View
- Past
- Present
- Paper
- Future
- Suggestions

[AI at UNH](#)

# Class Outro

# The AI View of An Agent

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Class Outro

■ The AI View

■ Past

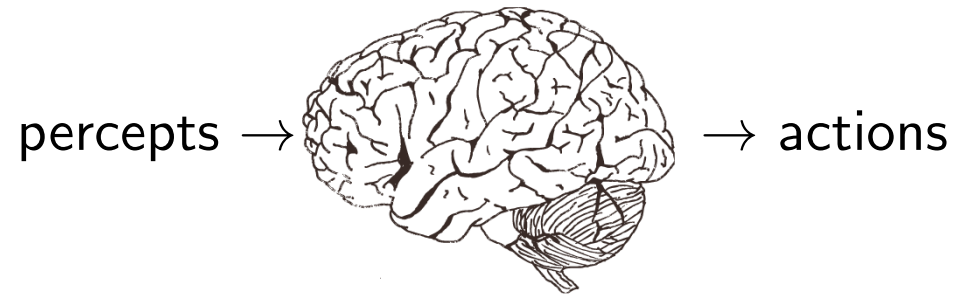
■ Present

■ Paper

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■ Suggestions

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- **perception**: supervising learning (handwriting recognition),  
unsupervised learning (shape finding)  
[ HMMs ]
- **reasoning**: constraint satisfaction, propositional satisfiability,  
first-order logic theorem proving  
[ tree search, optimization ]
- **planning**: state-space search, motion planning,  
domain-independent task planning, planning under  
uncertainty (MDPs)  
[ anytime and real-time planning,  
reinforcement learning ]
- **learning**: supervised, unsupervised  
[ generative ]
- **acting**: filtering (MCL)  
[ control ]

Not: cognitive modeling, NLP, vision, philosophy of mind

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- Fri May 2: noon-2pm posters  
no recitation
- Mon May 12 2pm: final papers  
2 paper hardcopies, 1 code hardcopy  
email PDF, tarball, HOWTO  
given tarball and HOWTO,  
raw results should be reproducible on agate

# Tips for a Research Paper

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- use the standard form: introduction (motivate and define problem, summarize paper), previous work, your approach, experimental results, discussion, conclusion
- write for someone who has taken an AI class but doesn't know anything about your specific problem
- don't just plot results, explicitly describe what they show and the conclusions you draw from them

- UNH AI group: usually weekly (Google 'UNH AI group') undergrads have done publishable work sign up for the mailing list!

Fall:

- Ruml: CS 931 Planning (ugrad 799)
- Begum: CS 733/833 Robotics
- Carton: CS 750 ML
- Petrik: CS 751/851 RL
- Dietz: CS 753/853 IR

Spring:

- Petrik: CS 757/857 Optimization
- Carton: CS 759/859 NLP
- Dietz: CS 781/881 KGs and Text

# Suggestions

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The SEL surveys are **important!** Your suggestions (especially those that are constructive and concrete) will influence future offerings of this class!

Thank you!



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■ AI at UNH

■ EOLQs

# AI at UNH

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AI at UNH

■ AI at UNH

■ EOLQs

- Momotaz Begum: assistive robotics
- Sam Carton: LLM interpretability
- Laura Dietz: Queripedia
- Marek Petrik: robust RL
- Wheeler Ruml: heuristic search
  - ◆ situated planning (Devin)
  - ◆ greedy search (Steve)
  - ◆ beam search (Paige)
  - ◆ parallel search (Autumn)
  - ◆ greedy search (Mike)

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■ EOLQs

Nope.