Area: Cognitive Processing/Modeling

Dr. Chris Janssen on behalf of:

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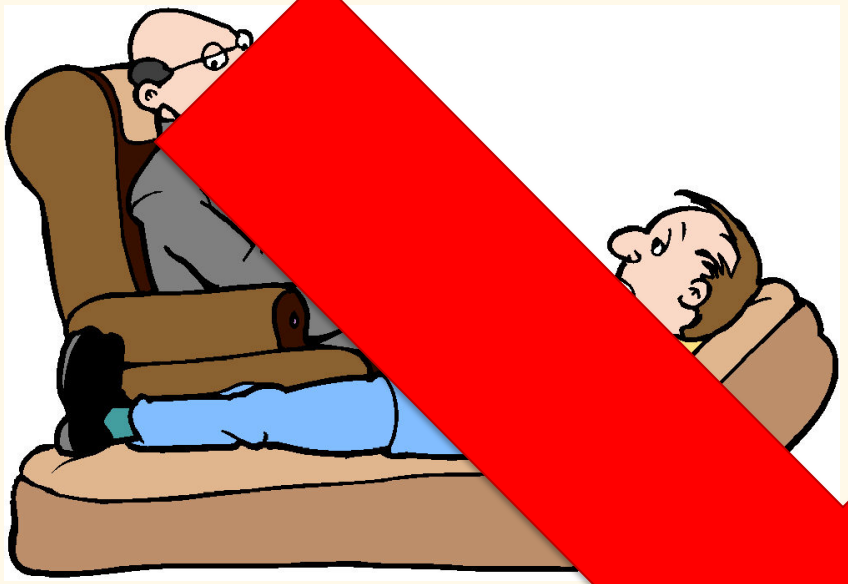

In spirit of Dartmouth workshop

"The study is to proceed on the basis of the conjecture that every aspect of learning or any other feature of intelligence ***can in principle be so precisely described*** that a ***machine can*** be made to ***simulate*** it."

Some topics:

- ✓ Language processing & -production
- ✓ Neural nets (cognitive modeling)
- ✓ Abstraction (from sensor data to concepts)
- ✓ Creativity

Value today

- ✓ Human as ***inspiration*** for (system) design
- ✓ ***Benchmark*** for performance
- ✓ Human-AI ***interaction***
- ✓ AI as tool to ***understand*** humans

Courses in area “Cognitive modeling”

- **Experimentation in Psychology, Linguistics, and AI**

  (INFOMEPL – term 3, slot C)
- **Machine learning for human vision and language**

  (INFOMLHVL – term 1, slot D)
- **Cognitive Modeling**

  (INFOMCM – term 2, slot A)

- **Each course: mix of labs and lectures**
  - **E.g.: Modeling R-assignments on Processing, Machine Learning, and Probabilistic models**

Even more options…

- **With Agents & Information & Computer Science, e.g.:**
  - **Social Computing**
  - **Human-centered Machine learning**
  - **Agents courses**
- **With Reasoning:**
  - **Logics for Safe AI**
  - **Logic and Language**
- **With Linguistics:**
  - **Natural Language Processing**
- **With secondary electives:**
  - **Expose yourself to our breadth**

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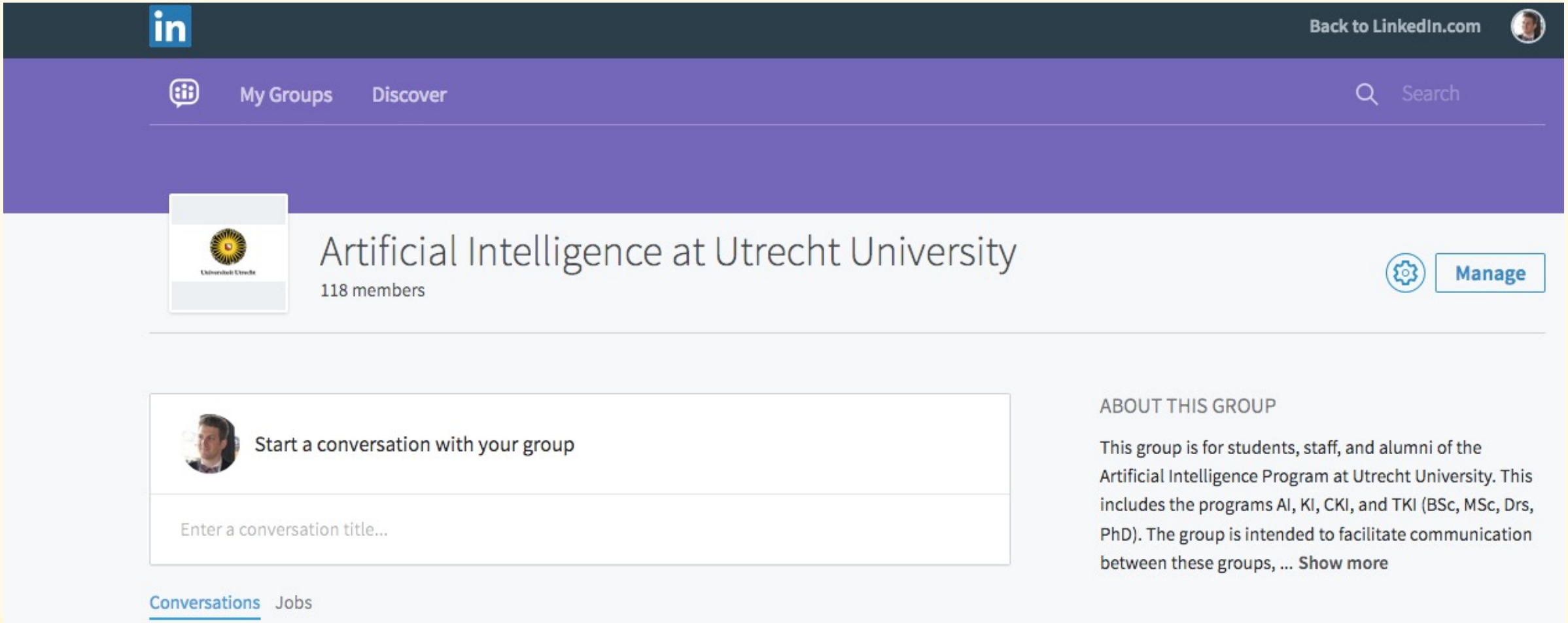
Plug: LinkedIN AI @ Utrecht group



https://www.linkedin.com/groups/13518046/
(state clearly in your profile that you are an AI student in Utrecht)

Plug: MS teams environment HAI