

# CS224V: Conversational Virtual Assistants with Deep Learning

## Reading List

Fall 2023

### 1 Large Language Models (LLMs) Introduction

1. Attention ([Vaswani et al., 2017](#))
2. GPT-3 ([Brown et al., 2020](#))
3. Instruct-GPT ([Ouyang et al., 2022](#))
4. LLAMA ([Touvron et al., 2023a](#))
5. Alpaca ([Taori et al., 2023](#))
6. Alpaca with Self-Instruct ([Wang et al., 2023c](#))
7. LLAMA-2 ([Touvron et al., 2023b](#))
8. Chain-of-thought ([Wei et al., 2023](#))
9. Self-consistency ([Wang et al., 2023b](#))

### 2 Grounding LLMs on Free Text

#### 2.1 Neural Information Retrieval Models

Non-neural algorithms: [TF-IDF](#) and [BM-25](#).

Popular neural retrieval systems:

1. ColBERT ([Khattab and Zaharia, 2020](#))
2. Condenser ([Gao and Callan, 2021](#))
3. CoCondenser ([Gao and Callan, 2022](#))
4. CoCo-DR ([Yu et al., 2022](#))

#### 2.2 Retrieval + Generation

1. Citation generation ([Gao et al., 2023](#))
2. Active retrieval augmented generation ([Jiang et al., 2023](#))
3. WikiChat ([Semnani et al., 2023](#))

#### 2.3 Evaluation

1. Evaluating Verifiability in Generative Search Engines ([Liu et al., 2023a](#))
2. Generating Benchmarks for Factuality Evaluation ([Muhlgay et al., 2023](#))

### 3 Grounding LLMs on Databases, Knowledge Graphs, and heterogeneous sources

1. Schema2QA ([Xu et al., 2020](#))
2. Grail QA ([Gu et al., 2021](#))
3. BIRD: Text-to-SQL benchmark for LLMs ([Li et al., 2023a](#))
4. WikiData semantic parser ([Xu et al., 2023](#))
5. Compmix: a heterogeneous data set with WikiData and Wikipedia ([Christmann et al., 2023](#))
6. Named Entity Disambiguation (NED): Re-FinED ([Ayoola et al., 2022](#))

### 4 Multi-Modal Applications

1. React: Describing the UI. ([React](#))
2. ReactGenie Framework for Multimodal Applications ([Yang et al., 2023](#))

### 5 Task-Oriented Dialogue Agents

1. MultiWOZ ([Budzianowski et al., 2018](#))
2. Dialogue Agent Architecture ([Campagna et al., 2022](#))
3. RiSAWOZ dataset (Chinese) ([Quan et al., 2020](#))
4. X-RiSAWOZ multilingual dataset ([Moradshahi et al., 2023](#))

### 6 Social Agents

1. Persuasion for Good: Towards a Personalized Persuasive Dialogue System for Social Good ([Wang et al., 2019](#))
2. Controllable mixed-initiative dialogue generation through prompting ([Chen et al., 2023](#))

3. Social Influence Dialogue Systems: A Survey of Datasets and Models For Social Influence Tasks ([Chawla et al., 2023](#))
4. Cardinal Chirpy ([Chi et al., 2021](#))
5. Blenderbot ([Shuster et al., 2022](#))

## 7 Robotic Automation

1. Russ: Grounding Open-Domain Instructions to Automate Web Support Tasks ([Xu et al., 2021](#))
2. DIY assistant: a multi-modal end-user programmable virtual assistant ([Fischer et al., 2021](#))

## 8 Grounding Agents on APIs and DSLs

### 8.1 Tools and APIs

1. ToolFormer ([Schick et al., 2023](#))
2. ART: Multi-step tool use ([Paranjape et al., 2023](#))
3. Gorilla LM ([Patil et al., 2023](#))
4. ToolAlpaca ([Tang et al., 2023](#))

### 8.2 Domain-Specific Languages (DSL)

1. Event-driven execution ([Campagna et al., 2017](#))
2. Access control using satisfiability modulo theory ([Campagna et al., 2018](#))

## 9 Large Language Models

### 9.1 Distillation of LLMs

1. Chain-of-Thought distillation ([Li et al., 2023b](#))
2. SCOTT: Self-consistent Chain-of-Thought distillation ([Wang et al., 2023a](#))
3. Symbolic Commonsense Knowledge Distillation ([West et al., 2022](#))
4. Knowledge Distillation of Large Language Models ([Gu et al., 2023](#))
5. Evaluating Open-Domain Question Answering in the Era of Large Language Models ([Kamaloo et al., 2023](#))
6. Self-Refine ([Madaan et al., 2023](#))

### 9.2 Evaluation of LLMs

1. HELM ([Liang et al., 2022](#)),
2. Repairing the Cracked Foundation: A Survey of Obstacles in Evaluation Practices for Generated Text ([Gehrman et al., 2022](#))
3. Judging LLM-as-a-judge with MT-Bench and Chatbot Arena ([Zheng et al., 2023](#))
4. G-Eval: NLG Evaluation using GPT-4 with Better Human Alignment ([Liu et al., 2023b](#))

## 10 Curation of Common Sense Knowledge

1. (Comet-) atomic 2020: On symbolic and neural commonsense knowledge graphs ([Hwang et al., 2021](#))
2. Commonsense Knowledge Transfer for Pre-trained Language Models ([Zhou et al., 2023](#))

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