



پژوهشگاه دانش‌های بنیادی  
پژوهشکده علوم کامپیوتر  
گروه هوش مصنوعی

## سخنرانی علمی

### Progress in the Breadth: Broadening the Scope of Language Understanding

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#### Abstract

Despite remarkable progress in building models for challenge benchmarks, the scope of progress remains limited to niche datasets (rather than a broad spectrum of language understanding tasks). How can we expand the scope of the abilities of our models? In this talk, I discuss two instances of modeling approaches to enabling systems that address a broader range of problems. In the first part, I introduce UnifiedQA, a single model that generalizes to *multiple different QA formats* (multiple-choice QA, extractive QA, abstractive QA, yes-no QA). In the second part, I discuss a paradigm that enables models to generalize across *a variety of tasks* (not just QA) by leveraging natural language "instructions" of each task. For both works, I present empirical evidence on systems' better generalization across datasets and domains.

Based on the following works:

- [UnifiedQA: Crossing Format Boundaries With a Single QA System](#)
- [Natural Instructions: Benchmarking Generalization to New Tasks from Natural Language Instructions](#)

#### Biography

Daniel Khashabi is a “Young Investigator” at Allen Institute for AI, Seattle. His interests lie at the intersection of artificial intelligence and natural language processing. He earned his PhD from the University of Pennsylvania and his undergraduate degree from Amirkabir University of Technology (Tehran Polytechnic).

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