

Chandra Bhagavatula

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- **Web:** <https://www.chandrab.page/>
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Profile

Accomplished NLP **researcher** with top-tier conference publications at ACL, EMNLP, ICML and NeurIPS. Proven track record of impactful research including the prestigious **AAAI Outstanding Paper Award**. Adept at **managing** a team of researchers. Passionate about translating research findings into **impactful products**.

Research Interests

- Improving efficiency of LLMs
- Understanding fundamental limits of transformer models
- Demystifying Instruction tuning and RLHF
- Unlocking new capabilities of LMs by enabling them to ask questions

Strengths

Innovative

Detail-oriented

Analytical

Problem-solving

Leadership

Communication

Work Experience

01/2023 – present
Seattle

Lead Research Scientist **Allen Institute for AI (AI2)**

- Model Distillation: Enhancing smaller LMs through novel algorithmic techniques
- Demystifying the LLM Pipeline: Understanding how an LLM changes during Instruction Tuning and RLHF

01/2023 – 03/2023
Seattle

Affiliate Assistant Professor **University of Washington**

Advanced NLP graduate-level course in the PMP program

07/2019 – 12/2022
Seattle

Senior Research Scientist **Allen Institute for AI (AI2)**

- Abductive and Counterfactual Reasoning datasets and models
- Automatic Knowledge Base Completion

06/2016 – 06/2019
Seattle

Research Scientist **Allen Institute for AI (AI2)**

- Citeomatic: A state-of-the-art neural network model for content-based citation recommendation
- Entity Linking and Entity Extraction using semi-supervised learning
- Claim Extraction from Scientific Research Documents

06/2015 – 09/2015
Seattle

Research Intern **Allen Institute for AI (AI2)**

06/2013 – 09/2013
Burlington, MA

Research intern **Oracle**

Work Experience

06/2011 – 09/2011
Seattle

Software Development Intern
Amazon.com

07/2008 – 07/2010
Bengaluru

Senior Software Engineer
Yahoo!

Education

09/2010 – 05/2016

Computer Science | PhD
Northwestern University

08/2004 – 07/2008
Allahabad

Computer Science | BTech
NIT, Allahabad

Recent Publications

07/2023

I2D2: Inductive knowledge distillation with neurologic and self-imitation
ACL

tl;dr: Unlocking the potential of smaller LMs to compete against 100X larger LMs

07/2023

ClarifyDelphi: Reinforced clarification questions with defeasibility rewards for social and moral situations
ACL

tl;dr: Clarification question generation using RL

12/2023

Faith and Fate: Limits of Transformers on Compositionality
NeurIPS

tl;dr: Understanding the limits of transformer LMs

Skills

Natural Language
Processing
EXPERT

Generative AI
EXPERT

Research
Communication
EXPERT

Experimental Design
PROFESSIONAL

Machine Learning
PROFESSIONAL

Information Extraction
PROFESSIONAL

Collaboration
PROFESSIONAL

Press Coverage of My Research

- [NYTimes] Can a machine learn morality?
- [Geekwire] Teaching artificial intelligence right from wrong: New tool from AI2 aims to model ethical judgments
- [Wired] This Program Can Give AI a Sense of Ethics—Sometimes
- [Geekwire] Researchers develop new way to help machine-generated language systems reduce toxic language
- [Science Daily] New test reveals AI still lacks common sense
- [MIT Technology Review] AI still doesn't have the common sense to understand human language
- [Synced] 2020 in Review: 10 AI Papers That Made an Impact