

# CHIRAG CHHABLANI

+1(312)619-1682 ◊ 15, 633 S laflin St, Chicago, IL, 60607  
cchahb2@uic.edu ◊ linkedin.com/in/chirag-chhablani ◊ chirag.github.io

## EDUCATION

---

### University of Illinois at Chicago, IL

Ph.D. Computer Science (Reinforcement learning and Trust ML) Aug 18 - Present  
Specialization: Conversational AI, Reinforcement learning for multiagent systems, Trust ML models especially for GNN.

### Birla Institute of Technology and Science, Pilani, India

B.Eng. Electrical and Electronics Engineering Aug 11 - May 15  
M.Eng. Software Systems Aug 15 - May 17

## PUBLICATIONS

---

- [1] C Chhablani\*, K Roy\*, M Gaur, “Conversation as Game playing” [Under Preparation]
- [2] C Chhablani\*, S Jain\*, I Kash and S Medya, “Game-theoretic Counterfactual Explanation for Graph Neural Networks” *WWW*, 2024
- [3] C Chhablani, V Gurbani, J Hosier and N Sharma, “Digits Micromodel for accurate and secure transactions” *AAAI*, 2024.
- [4] C Chhablani and I Kash, “An Analysis of Connections Between Regret Minimization and Actor Critic Methods in Cooperative Settings,” *AAMAS*, 2023 (**Long invited talk by Google Deepmind - 4/53 accepted papers**)
- [5] C Chhablani, M Sullins and I Kash, “Multiplicative Weights Updates for Extensive Form Games,” *AAMAS*, 2023

## RESEARCH EXPERIENCE

---

### Vail Systems, Chicago, IL

*Research Intern with Dr. Vijay Gurbani* June 23 - Aug 23

- Led the creation, cleaning, curation, and annotation of 42+ hours of training data for multi-digits dataset.
- Trained ASR language models for voice-banking applications using kaldi toolkit and achieved 50% lower word-error-rate than open-source models like Open AI’s Whisper model.

### Argonne National Lab, Lemont, IL

*Research Intern with Dr. Kevin Brown* May 21 - May 22

- Researched in deep learning models for improving job scheduling in HPC systems.
- Decreased the peak bandwidth consumption by 15% and average latency by 10% compared to existing state-of-the-art approaches.

### Zelle, Early Warning Services, Chicago, IL

*Data Science Intern with Dr. Edwin Campos* May 19 - Nov 19

- Rese Opinion mining of 7k+ Reddit posts using BERT. Improved accuracy over baseline models by 16%.
- Researched fraud detection on more than 15K twitter using ML models.

### Department of Computer science, UIC

*Research assistant with Dr. Ian A. Kash* Aug 18 - present

- Proposed state-of-the art techniques for multiagent RL systems, Conversation AI, and trustworthy GNN.
- Published the work in top-tier conferences like AAMAS, AAAI and WWW.

## SKILLS

---

### Languages

C, Java, Python

### Tools

Pytorch, Tensorflow, Keras Git, Linux, Docker, Flask, Pandas, AWS, GCP, LangChain