

# Yingbing Huang

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<https://wendyh1108.github.io/>

## Education

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- **University of Illinois Urbana Champaign (UIUC), Urbana, IL** **Aug. 2023 - Present**  
**Ph.D. Student** in Electrical and Computer Engineering  
*Advisor:* Deming Chen
- **Cornell University, Ithaca, NY** **Aug. 2019 - May. 2023**  
**B.S. with Honors** in Computer Science (**Dean's List**, 3.76/4.0)

## Research Experience

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- **Large Language Models, UIUC** **Aug. 2023 - Present**  
*Advisor:* Deming Chen
  - Currently working on LLM acceleration during inference time via quantization, pruning, and efficient calculations based on transformer architecture.
  - **Software/Hardware Co-design for LLM and Its Application for Design Verification** (Invited), *ASP-DAC 2024*
- **Active Representation Learning, Cornell University** **Sep. 2022 - May. 2023**  
*Advisors:* Simon S. Du, Kevin Jamieson, and Guanya Shi
  - Improved sample efficiency of multi-tasks representation learning with general target task space.
  - Provided the solution in both discrete and continuous settings and its potential in robotics.
  - **Active Representation Learning for General Task Space with Applications in Robotics** (<https://arxiv.org/abs/2306.08942>), *NeurIPS 2023*
- **Reinforcement Learning, Cornell University** **Sep. 2021 - May. 2023**  
*Advisor:* Wen Sun
  - Developed off-policy AIL algorithm that is comparable to or more sample efficient than state-of-the-art IL algorithms in various continuous control tasks.
  - It is also scalable to vision-based, partially observable domains.
  - **Adversarial Imitation Learning via Boosting** (Under review), *ICLR 2024*

## Work Experience

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- **MunichRe Life Insurance, Data Scientist, New York, NY** **May. 2022 - Aug. 2022**
- **Microsoft, Machine Learning Inference Team, Beijing, China** **Feb. 2021 - Jul. 2021**

## Technical Skills

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- **Programming Languages:** Python, Java, R, Julia, Ocaml, C++, Verilog, etc.
- **Tools:** Pytorch, Pandas, Wandb, Tableau, Jupyter Notebook, TensorFlow, Azure, Vivado/Vitis, HLS,  $\LaTeX$ , etc.