

# Fully-funded Ph.D./PostDoc Positions @ University of Utah



## Research Topics

- Formal Verification for AI system, Explainable AI
- Machine Learning for Electronic Design Automation (ML4EDA)
- Cross-stack Software Hardware Co-design
- Deep learning for combinatorial optimization

## Minimum Qualifications

- Strong research interests and motivation
- Solid programming skills in C/C++/python
- CS/ECE/Math majors with a solid GPA record
- Solid communication and writing skills (GRE/TOEFL)
  - Application requirements and online application system can be found here: <https://www.ece.utah.edu/grad#qf-app-requires>

## Preferred Qualifications

- Exposure to Formal Methods, e.g., SAT/SMT/LP/GB
- Basic knowledge of EDA for Integrated Circuits (ICs), e.g., tool/algorithm/design space exploration for synthesis/PnR/verification
- Hardware acceleration, e.g., DNN accelerator co-design on CPU/FPGA/GPU

## University of Utah & Salt Lake City

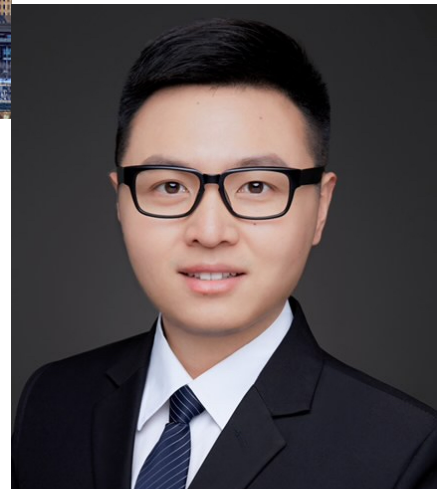
**Ranking:** CSRanking: #31; USNews CE: #49; USNews CS: #43

4 hours to Yellowstone and Grand Teton National Park

12 mins to **Utah Jazz (NBA)** Stadium; US best ski place (2002 Winter Olympic)

## Prospective PhD students and PostDoc

- Prospective PhD students (Fall20): Please send me your [**CV, GRE, TOEFL and B.S./M.S. transcripts**] and use [**Ph.D. Application - Your Name**] as the email subject.
- Prospective PostDoc: Strong background in EDA tool development for ASIC/FPGA, research experience with advanced technology node is a plus. Please send me [**CV, list of publications**] and use [**PostDoc Application - Your Name**]



Bio: Dr. Cunxi Yu is a tenure-track Assistant Professor at University of Utah. He received his Ph.D. at University of Massachusetts Amherst in 2017. He was a PostDoc at EPFL from 2017-2018 and a PostDoc at Cornell University from 2018-2019. He was Research Intern with IBM Thomas J. Watson Research Center in 2015 and 2016. His work received the best paper nominations at ASP-DAC (2017), TCAD (2018), and won the 1st place at DAC Security Contest (2017), and was nominated for ACM Outstanding Dissertation Award. More details can be found at Dr. Cunxi Yu's website.

Personal website:

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