

# Hong-Ming Chiu

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## EDUCATION

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<b>University of Illinois at Urbana Champaign (UIUC) (In Progress)</b> <i>Doctor of Philosophy – Dept. of Electrical and Computer Engineering (ECE)</i> – Advisor: Richard Yi Zhang.	<b>Champaign, IL</b> <b>Aug. 2021 – Present</b>
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<b>University of Illinois at Urbana Champaign (UIUC)</b> <i>Exchange Student – Dept. of Electrical and Computer Engineering (ECE)</i>	<b>Champaign, IL</b> <b>Jan. 2020 – May 2020</b>
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<b>National Yang Ming Chiao Tung University (NYCU)</b> <i>Bachelor of Science in Electronics Engineering</i>	<b>Hsinchu, Taiwan</b> <b>Sep. 2016 – Jun. 2020</b>
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## PUBLICATIONS

(Paper and source code available on <https://hong-ming.github.io/#mypublications>)

- [1] Gavin Zhang, **Hong-Ming Chiu** and Richard Y. Zhang. “Fast and Minimax Optimal Estimation of Low-Rank Matrices via Non-Convex Gradient Descent.” arXiv preprint.
- [2] **Hong-Ming Chiu** and Richard Y. Zhang. “Tight Certification of Adversarially Trained Neural Networks via Nonconvex Low-Rank Semidefinite Relaxations.” International Conference on Machine Learning (ICML 2023).
- [3] Gavin Zhang, **Hong-Ming Chiu** and Richard Y. Zhang. “Accelerating SGD for Highly Ill-Conditioned Huge-Scale Online Matrix Completion.” Advances in Neural Information Processing Systems (NeurIPS 2022).
- [4] **Hong-Ming Chiu**, Carrson C. Fung and Antonio Ortega, “Graph Learning and Augmentation Based Interpolation of Signal Strength for Location-Aware Communications,” 2020 European Signal Processing Conference (EUSIPCO 2020).
- [5] **Hong-Ming Chiu**, Kuan-Chih Lin and Tian Sheuan Chang, “Run Time Adaptive Network Slimming for Mobile Environments,” 2019 IEEE International Symposium on Circuits and Systems (ISCAS 2019).

## RESEARCH & WORK EXPERIENCE

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<b>NYCU Artificial Intelligence and Multimedia Lab</b> <i>Research Assistant (full-time) (Supervisor: Prof. Wen-Huang Cheng)</i>	<b>Hsinchu, Taiwan</b> <b>Jul. 2020 – Feb. 2021</b>
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<b>USC Signal Transformation, Analysis and Compression Group</b> <i>Summer Research (Supervisor: Prof. Antonio Ortega &amp; Prof. Carrson C. Fung)</i>	<b>Los Angeles, CA</b> <b>Jul. 2019 – Aug. 2019</b>
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## PROFESSIONAL ACTIVITIES

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<b>AISTATS 2024 Paper Reviewer</b>	<b>May. 2024, Valencia, Spain</b>
<b>ICLR 2024 Paper Reviewer</b>	<b>May. 2024, Vienna, Austria</b>
<b>NeurIPS 2023 Paper Reviewer</b>	<b>Nov. 2023, New Orleans, LA</b>
<b>ICML 2023 Paper Reviewer</b>	<b>Jul. 2023, Honolulu, HI</b>
<b>AISTATS 2023 Paper Reviewer</b>	<b>Apr. 2023, Valencia, Spain</b>
<b>NeurIPS 2022 Paper Reviewer</b>	<b>Nov. 2022, New Orleans, LA</b>
<b>ACM Multimedia 2020 Paper Reviewer</b>	<b>Oct. 2020, Seattle, WA</b>

## SKILLS & INTERESTS

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<b>Languages</b>	Fluent in Mandarin; Conversational Proficiency in English.
<b>Technical Skills</b>	MATLAB, C++, Python, Verilog, SystemVerilog.
<b>Research Interests</b>	Machine Learning, Optimization.