## Tzu-Han Hsu

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#### **EDUCATION**

# Ph.D. Student in Computer Science Engineering Michigan State University, East Lansing, MI, USA Bachelor of Science in Computer Science Bachelor of Music in Piano Performance 2020–Present 2013–2020

#### RESEARCH INTERESTS

Iowa State University, Ames, IA, USA

Formal Methods, Model Checking, Synthesis of Hyperproperties, Privacy and Information-Flow Security

#### EXPERIENCE

Graduate Research Assistant Department of Computer Science and Engineering, Michigan State University	2020–Present
Research Assistant Department of Computer Science, Iowa State University	2019–2020
Software Engineer Intern Worrell Inc., Minneapolis, MN	2019–2020

#### **PREPRINTS**

- 1. Tzu-Han Hsu, Yu Wang, Borzoo Bonakdarpour, Miroslav Pajic, "Multi-Agent Path Planning with Hyperproperties" (2020)
- 2. Tzu-Han Hsu, César Sánchez, Borzoo Bonakdarpour, "Bounded Model Checking for Hyperproperties" (2020)

#### TEACHING EXPERIENCE

• Teaching Assistant at Michigan State University

Discrete Structures in Computer Science (CSE 260)	
• Teaching Assistant at Iowa State University	Spring, Fall 2018
Object-Oriented Programming (COM S 227)	

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Spring 2020

### SCHOLARSHIPS AND AWARDS

• Nomination of Outstanding Senior of Department Award	2020
• Iowa State University College of Liberal Arts and Sciences Dean's List	2013 – 2020
• Future Leader Award, Issued by U.S. Ambassador to China Terry Branstad	2018
• Iowa State University International Student Ambassador Gold Level Scholarship Recipient	2013-2018
• Iowa State University Music Department Outstanding Student Scholarship Recipient	2013 - 2018
• Soloist Winner, Fort Dodge Orchestra Young Artists Concerto Competition	2015
• 1st Prize Winner, Iowa State University Symphony Orchestra Concerto Competition	2014
• State Winner, Music Teacher National Association (MTNA) Piano Competition	2014
Leadership and Volunteer Experiences	
• The Society for Collegiate Leadership & Achievement	2016 -2020
• Iowa State University Student Council, Department Representative	2017 - 2018
• Iowa Education without Borders (non-profit) Volunteer/Event Coordinator	2017 - 2018
• Iowa Youth Leadership Summer Camp Student Volunteer	2017 - 2018
• Iowa State University Annual K-12 Computational Thinking Competition	2020