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Tzu-Han Hsu



EDUCATION

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

RESEARCH INTERESTS

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

EXPERIENCE

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|---|--------------|
| 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 |

CONFERENCE PAPERS

1. [Tzu-Han Hsu](#), César Sánchez, Borzoo Bonakdarpour, “**Bounded Model Checking for Hyperproperties**” In *International Conference on Tools and Algorithms for the Construction and Analysis of Systems (TACAS)*, Luxembourg, Luxembourg. To appear. (2020)

PREPRINTS

1. [Tzu-Han Hsu](#), Yu Wang, Borzoo Bonakdarpour, Miroslav Pajic, “**Multi-Agent Path Planning with Hyperproperties**” (2020)

TEACHING EXPERIENCE

- **Graduate Teaching Assistant** at Michigan State University
Discrete Structures in Computer Science (CSE 260) Spring 2020
- **Teaching Assistant** at Iowa State University
Object-Oriented Programming (COM S 227) Spring 2018, Fall 2018

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