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Tzu-Han Hsu



EDUCATION

Ph.D. Student in Computer Science Engineering Michigan State University, East Lansing, MI, USA	2020–Present
Bachelor of Science in Computer Science Iowa State University, Ames, IA, USA	2016–2020
Bachelor of Music in Piano Performance Iowa State University, Ames, IA, USA	2013–2017

RESEARCH INTERESTS

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

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’21)*, Luxembourg, Luxembourg.

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