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Tzu-Han Hsu



EDUCATION

Ph.D. Student in Computer Science Engineering Michigan State University, East Lansing, MI, USA Advisor: Dr. Borzoo Bonakdarpour	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

RESEARCH 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

Conference Papers

1. <u>Tzu-Han Hsu</u>, 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. <u>Tzu-Han Hsu</u>, 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

FELLOWSHIPS

• University Graduate Research Fellowship, Michigan State University, April 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

Industrial Experience

Software Engineer Intern

2019 - 2020

Worrell Medical Design Inc., Minneapolis, ${\rm MN}$