Email: tzuhan@msu.edu Phone: (515) 441-6303 Web: tzuhancs.github.io LinkedIn: tzuhanhsu

Tzu-Han Hsu



EDUCATION

Ph.D. Student in Computer Science Engineering

2020-Present

Michigan State University, East Lansing, MI, USA

Bachelor of Science in Computer Science Bachelor of Music in Piano Performance

2013-2020

Iowa State University, Ames, IA, USA

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. <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), Luxembourg, Luxembourg. To appear. (2020)

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

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 |