

Siyuan Chai

CONTACT INFORMATION	siyuan.chai@u.northwestern.edu https://schai.me	
RESEARCH INTERESTS	High-Performance Computing, Operating System, Systems for ML	
EDUCATION	Northwestern University , Evanston, IL B.S. Computer Science, B.S. Electrical Engineering GPA: 4.0/4.0 Expected: 2021	
	Washington University in St. Louis , St. Louis, MO B.S. Computer Science, B.S. Electrical Engineering GPA: 4.0/4.0 Transferred	
RESEARCH EXPERIENCE	Research Assistant Prescience Lab, Northwestern University Advisor: Prof. Peter Dinda Apr. 2020 to Present	
	Research Assistant Image and Video Processing Lab, Northwestern University Advisor: Prof. Aggelos Katsaggelos June 2019 to Present	
	Research Assistant XZ Group, Washington University in St. Louis Advisor: Prof. Xuan Zhang June 2018 to May 2018	
PUBLICATIONS AND SUBMITTED PAPERS	1. Ramsey M Wehbe, Jiayue Sheng, Shinjan Dutta, Siyuan Chai , Amil Dravid, Semih Barutcu, Yunan Wu, Donald R. Cantrell, Nicholas Xiao, Hatice Savas, Rishi Agrawal, Nishant Parekh, Aggelos K. Katsaggelos. "DeepCOVID-XR: An Artificial Intelligence Algorithm to Detect COVID-19 on Chest X-rays." <i>Radiological Society of North America (Submitted to RSNA 2020)</i>	
WORK IN PROGRESS	1. KARAT: Kernel Implementation of Compiler- and Runtime-Based Address Translation <i>with Brian Suchy, Souradip Ghosh, Drew Kersnar, Zhen Huang, Peter Dinda</i> 2. ValveNet: Mitral Regurgitation Flow Prediction with Convolutional Neural Network <i>with Jiayue Sheng, Ramsey M. Wehbe, Aggelos K. Katsaggelos.</i>	
TEACHING EXPERIENCE	Peer Mentor (Undergraduate TA) - Northwestern University COMP_SCI 336 - Design & Analysis of Algorithms Instructor: Konstantin Makarychev Instructor: Jason Hartline Teaching Assistant - Washington University in St. Louis ESE 205 - Introduction to Engineering Design Instructor: James Feher	Winter 2020 Spring 2019, Fall 2019 Spring 2018
AWARDS AND HONORS	Dean's List , all quarters ICPC, Mid-Central Regional, Top 20% VEX Robotics International Championship, Top 4 Alliance	2017 - Present 2018 2016