

Yangruirui ZHOU

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EDUCATION

Boston University (BU)	09/2020-Now
■ Ph.D. student of Computer Engineering	GPA: 3.91/4.00
University of Electronic Science and Technology of China (UESTC)	09/2016-06/2020
■ B.E in <i>Software Engineering</i>	GPA: 3.94/4.00 (Rank: 6/740)
University of California, Santa Barbara (UCSB)	01-03/2019
■ Exchange Program	
National University of Singapore (NUS)	07-08/2017
■ Visiting Student	

SKILLS

- **Programming language:** Python, Java, C, Typescript, Linux Shell, R
- **Tools:** NetworkX, Tensorflow, Pytorch, Latex

EXPERIENCE HIGHLIGHT

Rich hands-on experience on 1) optimizing algorithms for synthetic biology applications, such as verifying and simulating microfluidic devices with constraints; 2) design formal definition for microfluidics to make the experiment procedure standardized, and the experiment result reproducible.

PROJECTS

Rapid verify algorithm for microfluidic devices with constraint	02-06/2022
<i>Research Assistant, CIDAR lab, Supervised by Prof. Douglas Densmore</i>	
Pose tracking project (Summer student internship)	06-08/2019
<i>Summer Research Program at UCSB, Supervised by Prof. Matthew Turk and Prof. Tobies Hollerer</i>	
International Genetically Engineered Machine competition (iGEM)	02-11/2019
<i>Major Contributor of UESTC-Software (Wiki: https://2019.igem.org/Team:UESTC-Software)</i>	
"Internet +" Innovation and Entrepreneurship Competition for College Students	03-08/2018
<i>Minor Contributor of Project "Minitutor" Intelligent Endoscopy Training and Assessment System</i>	

AWARDS & HONORS

Most Outstanding Students of UESTC 2019 (成电杰出学生, 10/5000 in UESTC, 1/740 in department)	12/2019
iGEM " Gold medal " and " Best Software Project "	11/2019
Outstanding Graduates Award of UESTC	10/2019
"Wu Liang Ye" Enterprise Scholarship (2/740 in Software Engineering department)	09/2019
Outstanding Student Scholarship	09/2019
Outstanding Student Scholarship	09/2018
"Internet +" Innovation and Entrepreneurship Competition for College Students in Sichuan, Gold Award	08/2018
Outstanding Student Scholarship	09/2017
International Software Testing Qualifications Board (Certified Tester) [Foundational Level]	10/2016

PROFESSIONAL SERVICES

ICCAD'22 Second Paper Reviewer	06/2022
Teaching Assistant of EC504 (Advanced data structure and algorithms)	01-05/2022

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PUBLICATIONS

[Ongoing] VeSpA - Rapid Verification for Interactive Microfluidic Device Design via Flow Routing Simulation