

# Yangruirui ZHOU

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## EDUCATION

Boston University (BU)	09/2020-Now
■ <b>Ph.D.</b> student of Computer Engineering	GPA: <b>3.91/4.00</b>
University of Electronic Science and Technology of China (UESTC)	09/2016-06/2020
■ <b>B.E</b> in <i>Software Engineering</i>	GPA: <b>3.94/4.00 (Rank: 6/740)</b>
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
- **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

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

## AWARDS & HONORS

<b>Most Outstanding Students of UESTC 2019</b> (成电杰出学生, <b>10/5000</b> in UESTC, <b>1/740</b> in department)	12/2019
iGEM " <b>Gold medal</b> " and " <b>Best Software Project</b> "	11/2019
Outstanding Graduates Award of UESTC	10/2019
"Wu Liang Ye" Enterprise Scholarship ( <b>2/740</b> 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

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[In Revision] A Conceptual Interactive Microfluidic Design and Control Workflow, (IWBDA'22)

07-08/2022

[Submitted] Constraint Based Path Verification for Microfluidic Biochips, (DATE'23)

04-09/2022