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 *Software Engineering*   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
- **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 verification algorithm for microfluidic devices with constraints   02-06/2022
Research Assistant, CIDAR lab, Supervised by Prof. Douglas Densmore

Pose tracking project (Summer student internship)   06-08/2019
Summer Research Program at UCSB, Supervised by Prof. Matthew Turk and Prof. Tobies Hollerer

International Genetically Engineered Machine competition (iGEM)   02-11/2019
Major Contributor of UESTC-Software (Wiki: https://2019.igem.org/Team:UESTC-Software)

"Internet +" Innovation and Entrepreneurship Competition for College Students   03-08/2018
Minor Contributor of Project "Minitutor" Intelligent Endoscopy Training and Assessment System

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

[1] A Conceptual Interactive Microfluidic Design and Control Workflow, (IWBDA'22)   07-08/2022

[2, Submitted] Constraint Based Path Verification for Microfluidic Biochips, (DATE'23)   04-09/2022