

# Biao Xie

University of Massachusetts Boston  
College of Science and Mathematics

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## RESEARCH INTERESTS

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Virtual reality, User Interaction, Game Development, Software Design

## EDUCATION

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<b>University of Massachusetts Boston</b> Bachelor of Science in Computer Science (B.S.) Minor in Mathematics GPA: 3.63 Relevant Courses: <ul style="list-style-type: none"><li>• Advanced Algorithms</li><li>• Applied Discrete Math</li><li>• Linear Algebra</li></ul>	2016-Ongoing
<b>Malden High School</b> High School Diploma	2012 - 2016

## PUBLICATION

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**Exercise Intensity-driven Level Design**  
Biao Xie, Yongqi Zhang, Haikun Huang, Elisa Ogawa, Tongjian You, Lap-Fai Yu  
*IEEE Transactions on Visualization and Computer Graphics (TVCG)*, 2018  
Featured in IEEE Xplore Innovation Spotlight  
(Special Issue on IEEE Virtual Reality 2018. Acceptance Rate: 15% )

**Motion-guided Level Design**  
Yongqi Zhang, Haikun Huang, Biao Xie, Elisa Ogawa, Tongjian You, Lap-Fai Yu  
(Under review in UIST 2018)

## HONORS

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<b>The Ronald E. McNair Fellow In-Training</b>	October 2017 - Ongoing
<b>Sanofi Genzyme and Oracle Undergraduate Research Fellowship</b>	June 2017
<b>Undergraduate Research Funds(URF)</b>	December 2017

## EXPERIENCE

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<b>Undergraduate Research Assistant</b> University of Massachusetts Boston <ul style="list-style-type: none"><li>• Conduct a virtual reality research project</li><li>• Assist with user study and device configuration</li><li>• Set up demos for showcasing new virtual reality devices</li></ul>	November 2016-Ongoing
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**Vice President (Internal)**

2016-Ongoing

Game Development Club

University of Massachusetts Boston

- Organize club gatherings and presentations
- Share game development ideas and news with club members

**Member**

September 2015-June 2016

National Honor Society

Malden High School

- Raised funds for families in need around community in holidays. We raised more than \$10,000 in 2015
- Developed a website which provides translation of the school's policy and other accessible information for students who just came to the country

**Web Developer**

2013-2014

Excella Graphics

- Developed websites using Wordpress for small businesses
- Maintained websites based on clients' requirements
- Conducted e-marketing

**Math Tutor**

Summer, 2013 and 2014

MCAS Math Summer Program

Malden High School

Total Hours: 150

- Taught students problem-solving skills
- Followed up with students' learning progress
- Helped students struggling to pass the state exam

**SKILLS**

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**Programming Languages:** Java, C, C#, HTML**Web Development:** Wordpress**REFERENCES**

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**Lap-Fai (Craig) Yu**

Assistant Professor

Department of Computer Science

University of Massachusetts Boston

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