

# Sajjad Torabian Esfahani

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Current Position M.Sc. Student, Computer Science, J.B. Speed School of Engineering, University of Louisville, Kentucky, United States

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Research Interests Artificial Intelligence, Machine Learning, Robotics, Computer Vision, Computer Graphics, Signal Processing, Simulation and Modeling

Education **University of Louisville, KY, USA** **January 2015 - Present**  
M.Sc., Computer Science, Computer Engineering and Computer Science department  
**University of Tehran, Tehran, Iran** **September 2009 - January 2015**  
B.Sc., Computer Engineering, Department of Electrical and Computer Engineering  
**Rouzbeh High School** **September 2005 - June 2009**  
Diploma in Math and Physics

- **GPA: 20 out of 20** (Ranked First of 47)

Academic Experience **University of Louisville, KY, USA** **Spring 2015 - Present**  
*Research Assistant, **Cyber Security Laboratory*** *Supervisor: Dr. Roman Yampolskiy*  
**University of Louisville, KY, USA** **July 2013 - September 2013**  
*Intern, **Cyber Security Laboratory***

- Worked on Audio CAPTCHAs, Supervisor: Dr. Roman V. Yampolskiy
- Selected for the CECS homepage spotlight: <http://louisville.edu/speed/computer>. The direct link is <http://louisville.edu/speed/computer/spotlights/sajjad-torabian-esfahani-profile.html>

**University of Tehran, Tehran, Iran** **January 2013 - June 2013**  
*Teaching Assistant, **Discrete Mathematics*** *Lecturer: Dr. Siamak Mohammadi*  
**University of Tehran, Tehran, Iran** **January 2012 - June 2013**  
*Research Assistant, **Artificial Intelligence and Robotics Laboratory*** *Supervisor: Dr. H. Moradi*

- Worked on RoboCup, Computer Graphics, and Computer Vision

**University of Tehran, Tehran, Iran** **January 2011 - June 2013**  
*Leader of the RoboCup team of University of Tehran*

- Worked on Nao robot, participated in competitions through the 3D Soccer Simulation League

Leader of the Game Team of University of Tehran

- Developed 3D games with Microsoft DirectX
- Taught DirectX and Computer Graphics concepts to undergraduate students, Spring 2011

Teaching	Discrete Mathematics, Rouzbeh Pre-University School	Spring 2012
Experience	Geometry, Rouzbeh High School	Spring 2012
	Discrete Mathematics, Rouzbeh High School	Fall 2011
	C++ Programming, Rouzbeh High School	Fall 2011
	Introduction to Information Technology, Rouzbeh High School	Fall 2009 - Spring 2011

Honors & Awards	<b>Merit Scholar Award</b> , University of Louisville, equal to \$12,000 per year, June 2014	
	The only undergraduate selected for an oral presentation, RSI International Conference on Robotics and Mechatronics (ICRoM 2013), Tehran, Iran, February 2013	
	Qualified for the 2013 <b>RoboCup World Championship</b> in Eindhoven, The Netherlands	
	<ul style="list-style-type: none"> <li>• Only 25 teams were selected through the qualification process, Spring 2013</li> </ul>	
	Qualified for the 2013 <b>IranOpen RoboCup Competitions</b> , Spring 2013	
	<ul style="list-style-type: none"> <li>• <a href="http://2013.iranopen.ir/Default.aspx?tabid=142&amp;language=en-GB">http://2013.iranopen.ir/Default.aspx?tabid=142&amp;language=en-GB</a></li> </ul>	
	Awarded a scholarship worth \$1000 from Alumni Association of Faculty of Engineering, University of Tehran, Spring 2013	
	Ranked 314 <sup>th</sup> among more than 87,000 applicants in <b>National Universities Entrance Exam</b> , 2009	
	Ranked 1 <sup>st</sup> of 47, Rouzbeh High School, 2008	

Publications	<b>S. Torabian</b> , S. HoseinAlipour, A. Mirzargar, and M. Tavakkolian, "Improving the Localization of Humanoid Soccer Robots in Specified Fields: A Neural Network Approach", <i>RSI/ISM International Conference on Robotics and Mechatronics (ICRoM)</i> , Tehran, Iran, 2013	
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Workshops Organized	"International Internship," Student Scientific Research Center, <b>Tehran University of Medical Sciences</b> , Tehran, Iran, November 22, 2014 & December 20, 2014	
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Conferences Attended	RSI/ISM International Conference on Robotics and Mechatronics (ICRoM 2013), Tehran, Iran, 13 - 15 February 2013	
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18<sup>th</sup> International Conference on Computer Games: AI, Animation, Mobile, Education & Serious Games, Louisville, KY, US, 30<sup>th</sup> July - 1<sup>st</sup> August 2013

- Workshops "Embedded Gaming," CGAMES 2013, Louisville, KY, US, Summer 2013
- Attended "Professional Techniques for Budget Game Development," CGAMES 2013, Louisville, KY, US, Summer 2013
- Computer Skills *Programming Tools and Languages: C, C++, C#, Java, Python, Visual Basic, SQL, Assembly*  
*Computer Graphics: Microsoft DirectX 11*  
*Computer Vision: Open Source Computer Vision Library, OpenCV*  
*HDL (Hardware Description Language): Verilog, VHDL*  
*Simulation and Designing Tools: Matlab, Modelsim, Quartus*
- Sports Second-rate certificate, Life Saving and Diving Federation, Tehran, Iran  
Swimming Teacher at Manzariyeh Camp, Tehran, Iran, Summer 2009 & 2010 & 2011
- Art & Concerts Playing Santour (an Iranian traditional musical instrument) since Summer 2009  
Presented and played Santour for the first time at **School of Music, University of Louisville**, Summer 2013  
Concert at graduation ceremony of dentistry students of University of Tehran, Olympic Hotel, Tehran, Iran, Fall 2014  
Santour Solo at Melody Baran Music School concert, Tehran, Iran, Spring 2012 & Fall 2012  
Concert at Espandegan celebration, University of Science & Culture, Tehran, Iran, Spring 2013  
Concert at Eidaneh celebration, University of Tehran, Tehran, Iran, Spring 2013
- Languages English: Fluent  
Spanish: Intermediate (Follow me on [www.duolingo.com/sajjadtorabian](http://www.duolingo.com/sajjadtorabian))  
Arabic: Intermediate  
Persian: Native Language
- Other Interests Masnavi, Theory of Music, Persian Music
- References **Dr. Roman V. Yampolskiy**, Associate Professor, J.B. Speed School of Engineering, University of Louisville, KY, US. Email: [roman.yampolskiy@louisville.edu](mailto:roman.yampolskiy@louisville.edu) Tel: +1 502 852 3624  
**Dr. Siamak Mohammadi**, Assistant Professor, School of Electrical & Computer Engineering, University of Tehran, Iran. Email: [smohammadi@ut.ac.ir](mailto:smohammadi@ut.ac.ir) Tel: +98 21 82084935