

MHD Yamen Saraiji

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③ http://myamens.com/ • Nationality/Birth Date: Syria/1988-Jan-15

"In the middle of every difficulty lies opportunity."

Graduated from the Department of Computer Science at Damascus University with a major in Artificial Intelligence back in 2010. Received my M.Sc and Ph.D. degrees in Media Design from Keio University in 2015 and 2018, respectively. My research, namely "Radical Bodies", expands on the topic of the machines as an extension of our bodies, and emphasizes the role of technologies and robotics in reshaping our innate abilities and cognitive capacities. My work, which is experience driven, has been demonstrated and awarded at various international conferences such as SIGGRAPH, Augmented Human, CHI, and ICAT. The other part of me involves reading, photography, tinkering, and hiking.

Professional Experience

Keio University/Graduate School of Media Design

Japan April 2018

Project Senior Assistant Professor

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USA

Samsung Research America

Internship

October 2016-February 2017

- Worked with Think Tank Team group
- Research direction was in computer vision and augmented reality applications.
- Developed a fully working demo for real-time Virtual Reality interaction in 360 scenarios.
- Used tools related to Computer Vision, Deep learning (Tensorflow), and image rendering (Unity3D).

HUG Project Japan

Development

September 2015-December 2015

- Collaboration with Ducklings Japan, CREATIVE ORCA, and FOVE to create a platform to connect people across the distance using Telexistence technology.
- In charge of software design and implementation.
- Winner of Softbank Pepper App Challenge 2015

NEDO/Obayashi

Japan Sept 2014–March 2017

- Research & Development
- Developing next generation teleoperated backhoes and rescue vehicles using Telexistence technology.
- Was in charge of software design and implementation.

TEDxTokyo

Interaction Designer

Jan 2014-May 2014

- Work with design team to create interactive visual installation during the event.
- Developed both the installation and the software.

Syriatel Syria

Software Engineer Consultant

Sept 2011-Apr 2012

- Worked for the top telecommunication company in Syria (SyriaTel) to develop a management software used by Ministry of Interiors.
- My role included the study of specifications and requirement by visiting the stakeholders and iterate over system development.

Education

Academic Qualifications PhD Degree at Graduate School of Media Design Japan Keio University 2015-2018 Master Degree at Graduate School of Media Design Japan Keio University, GPA 3.98 2013-2015 AI/CS Bachelor Degree at Faculty of Information Science Syria Damascus University 2005-2010

Projects & Thesis....

- o Ph.D.: 'Embodied-Driven Design: A Framework to Configure Body Representation & Mapping' "Embodied-Driven Design" is an approach for designing embodied interactions with body augmentative medium. I highlight on the role of such design tools to alter body schema while maintaining transparent interaction using such augmentative tools.
- o Master: 'Virtual Embodied Telexistence: Telecommunication using Sensory Feedback and Virtual Body Representation'
 - "Virtual Embodied Telexistence" is a system that combines low cost Telexistence system with virtually embodied human functions into it. Allowing the user to have an immersive visual feedback of the remote place while being aware of his body via visual representation of it. The entire software implementation was done by me, some of the hardware implementation was done in collaboration with other lab member.
- o Bachelor Degree: 'Virtual Character Simulation: Physics-Based Locomotion Control, Movement Control and Behavior Simulation'

A collaborated project teamed with 2 students, and it was targeted for real-time behavior and locomotion simulation of Al agents. This project was evaluated as 95% - as the highest mark for a project that year.

Languages Proficiency

English: Fluent

Japanese: Business working proficiency

Arabic: Native

Teaching & Academic Experience

- o Teacher Assistant for Embodied-Interaction course at Keio Media Design in 2015.
- o Teacher Assistant for Computer Graphics hands-on course at Damascus University in 2011.
- o Worked for Syrian Computer Society (SCS) as a Teacher of "Introductory to Programming & Algorithms" in 2011.

Awards

Entertainment Division/New Face Award

Japan

21th Japan Media Arts Festival

June 2018

Received new face award for project titled "MetaLimbs"

http://festival.j-mediaarts.jp/en/works/entertainment/metalimbs/

Grand Award/The Minister of MIC Award

Japan

Asia Digital Art Award

Feb 2018

Received the grand award for project titled "MetaLimbs"

https://adaa.jp/en/winners/winners2017.html/

USA

Best in ShowSIGGRAPH 2017 Emerging Technologies

July 2017

Received the best in show award for project titled "MetaLimbs" at SIGGRAPH 2017

Reference: http://s2017.siggraph.org/content/emerging-technologies

USA

ACM's Student Research Competition

July 2016

Received the first prize for ACM's Student Research Competition at SIGGRAPH 2016

Reference: http://s2016.siggraph.org/acm-student-research-competition

Best Demo Award & Best Care Welfare Application

Japan

Pepper App Challenge

Gold Prize

November 2015

Received two awards at Softbank's Pepper App Challenge 2015 Winter for project titles "HUG Project" (http://hugproject.net/)

 $Reference: \ http://www.softbank.jp/robot/special/app-challenge/pac/$

Best Demo Award & Honorable mention

Japan

ICAT-EGVE 2015

November 2015

Received two awards at the 25th International Conference on Artificial Reality and Telexistence (ICAT 2015) and the 20th Eurographics Symposium on Virtual Environments (EGVE 2015)

Reference: http://www.ic-at.org/2015/#program

Top three Finalists

Japan

Microsoft Design Challenge

November 2015

Received the 2nd place prize in Microsoft Design Challenge (Hacking Mars) for the concept video: NOVA Cards: Emotion Transmitting Photos.

Reference: https://microsoft.promo.eprize.com/hackingmars/

Dean's list Japan

Keio Media Design

March 2015

Honoured as being selected in the dean's list for my master's degree.

Reference: http://www.kmd.keio.ac.jp/en/experience/deans-list.html.

Best Demo Award

Singapore

Augmented Human 2015

March 2015

Received Best Demo award at the International Conference of Augmented Human 2015

Reference: http://goo.gl/QMY7LR.

MEXT Scholarship

Japan

Selective Scholarship

April 2012-April 2018

Fully paid scholarship for Research, Master degree and PhD degree at a Japanese University.

Volunteer Activities

ACM TEI'17 Japan

Student Volunteers Chair

March/2017

Was in charge of Student Volunteers during 11th International Conference on Tangible, Embedded and Embodied Interactions (TEI) in Japan. I handled the logistics, management, and operations of the SV team during the conference.

SIGGRAPH Asia

Hong Kong/Japan/Macao

['] Student Volunteer

2013/2015/2016

Beside my love to academic publication, I am also interested in contributing to conferences I like in different ways. I Joined SIGGRAPH Asia as a student volunteer and team leader to assist in running the conference activities. Most of the organizational activities are assigned to the volunteers, and working schedule was almost full, though I really enjoyed it. The general atmosphere is mixed with multi-national students from all different ethnicities.

TEDxTokyo

Designers Team

Jan-May 2014

Worked with professional visual designers over 3 months project period to successfully implement an interactive visualization during the event.

LbE JapanJapanStudent MentorAug 2012-Mar 2013

Participated in several workshops as a student mentor for high school students. The goal of this program is to introduce the student to the international communication and global awareness. The program also aimed to help the students to improve their English language communication.

References

Available upon request.

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MHD Yamen Saraiji, Charith Lasantha Fernando, Kouta Minamizawa, and Susumu Tachi. Development of mutual telexistence system using virtual projection of operator's egocentric body images. In *ICAT-EGVE* 2015. EGVE, 2015.

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Tomoya Sasaki, MHD Yamen Saraiji, Lichao Shen, Kouta Minamizawa, and Susumu Tachi. Metalimbs: Metamorphosis for multiple arms interaction using artificial limbs. In 44th International Conference on Computer Graphics and Interactive Techniques, ACM SIGGRAPH 2017. Association for Computing Machinery, Inc., 2017.

Lichao Shen, Mhd Yamen Saraji, Kai Kunze, and Kouta Minamizawa. Unconstrained neck: Omnidirectional observation from an extra robotic neck. In *Proceedings of the 9th Augmented Human International Conference*, page 38. ACM, 2018.