

YURA HWANG

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EDUCATION

- **Texas A&M University** (*College Station, TX*) *Dec 2019*
M.S. (Thesis track) in Computer Science (Advised by Dr. Shinjiro Sueda)
Thesis: Bioinspired Simulation of Knotting Hagfish via Thigmotaxic Inverse Dynamics
- **Ewha Womans (Women's) University** (*Seoul, South Korea*) *Feb 2013*
B.A. in History (Double majored in *Japanese and Culture*)

PUBLICATIONS

- **Bioinspired Simulation of Knotting Hagfish**
Yura Hwang, Theodore A. Uyeno, Shinjiro Sueda, *International Symposium on Visual Computing (ISVC)*, Lake Tahoe, NV, October 7-9, 2019.
- **REDMAX: Efficient & Flexible Approach for Articulated Dynamics**
Ying Wang, Nicholas J. Weidner, Margaret A. Baxter, Yura Hwang, Danny M. Kaufman, Shinjiro Sueda, *ACM Transactions on Graphics*, 38(4) 104:1-104:10 (SIGGRAPH), 2019.
- **Estimating Whole Body Flexibility in Pacific Hagfish**
Emily E. Evans, Yura Hwang, Shinjiro Sueda, Theodore A. Uyeno, *The Society for Integrative & Comparative Biology*, San Francisco, CA, January 3-7 (poster), 2018.

WORK EXPERIENCE

- **Student Assistant** *Texas A&M University, Sep 2019-Current*
Graded assignments and actively assisted instructor (Dr. Hyunyoung Lee) in organizing the class, in *Discrete Structures for Computing*.
- **Research Assistant** *Texas A&M University, Sep 2017-May 2019*
Research assistant (to Dr. Shinjiro Sueda) in computer graphics lab in Texas A&M. Achieved simulating hagfish model and behavior in computer graphics using rigid-body dynamics. Took on the role of a communicator, by bridging the gap and establishing a strong partnership with the biology department (Valdosta State University). The project enabled advancement in computer graphics, biology, and robotics.

AWARDS & HONORS

- **Grace Hopper Conference Scholarship** *GHC, Oct 2019*
- **KFAS (Korea Foundation for Advanced Studies) Scholarship** *SK Group, Apr 2010-Feb 2013*
- **Dean's List** *Ewha, Spring 2012, Fall 2012*
- **Scholarship for Honor Student** *Ewha, Fall 2012*
- **School Scholarship** *Ewha, Spring 2012*

SKILLS

Programming Language [Primary] C++, [Experience] GLSL, C, Matlab, HTML/CSS
C#, Python, Ruby, R, Scheme, Assembly (x86-64), L^AT_EX

Foreign Language [Primary] Korean, English, [Experience] Japanese

OTHER EXPERIENCE

- **SIGGRAPH Student Volunteer**

Vancouver (Canada), Aug 2018

Helped organizing conference talks and aided in introducing new developments of research groups and companies. Showed communication and coordination skills in associating both researchers and visitors with one another.

- **Hayek Academy Assistant**

Sejong (S. Korea), July 2015, Busan (S. Korea), July 2016

Managed lectures and classes in summer economics education program, Hayek Academy. Also escorted a foreign guest lecturer in introducing cultures and cities in a Korea.

- **Holy Family Child Adoption Center Volunteer**

Seoul (S. Korea), Oct 2013-Feb 2014

Caused by lack of affection and care, children in the center often showed developmental disorder, especially in learning language. Helped children (age of 3-6) in learning basic words and numbers.

- **Book Translation**

Busan (S. Korea), Oct 2013-Feb 2014

Co-translated Gordon Tullock's *Foreign Affairs: A Compact History* (World Scientific, 2009) into Korean with Sooyoun Hwang.

- **Ewha Archives Volunteer**

Ewha, Aug 2012-Dec 2012

Introduced the history of the school to visitors and special guests, such as Solvay CEO.