

# Yura Hwang

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School of Computing, University of Utah  
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**EDUCATION**      *University of Utah* (Salt Lake City, UT)      *Current*  
Ph.D. in Computer Science  
Advisor: Cem Yuksel

*Texas A&M University* (College Station, TX)      *Dec 2019*  
M.S. in Computer Science  
Advisor: Shinjiro Sueda

*Ewha Womans University* (Seoul, Republic of Korea)      *Feb 2013*  
B.A. in History (Double majored in *Japanese and Culture*)

**RESEARCH INTEREST**      Physics-based simulation, Real-time rendering, Computational geometry, GPU architectures, Game narratives, Network systems

**EXPERIENCE**      ***Graduate Research Assistant***

University of Utah | *Aug 2021-Current*

- Currently working on a project designing a texture resampling algorithm to improve the edge sharpening in the VR pipeline.

Texas A&M University | *Sep 2017-May 2019*

- With the partnership with the biology department (Valdosta State University), simulated the sliding behavior of hagfish by using rigid-body dynamics.

***Graduate Teaching Assistant***

University of Utah | *Jan 2021-Current*

- Worked as a Teaching Assistant in *Interactive Computer Graphics(CS5100/6100)*.

University of Utah | *Aug 2021-Dec 2021*

- Worked as a Teaching Assistant in *Introduction to Computer Graphics(CS4600)*.

***Graduate Student Assistant***

Texas A&M University | *Sep 2019-Dec 2019*

- Worked as a grader in *Discrete Structures for Computing(CSCE222)*.

**PUBLICATIONS**

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

**AWARDS &  
HONORS**

*School of Computing Department Fellowship* *Fall 2020-Spring 2021*  
University of Utah

*Travel Grant Award* *Oct 2019*  
Texas A&M University

*Grace Hopper Conference Scholarship* *Oct 2019*  
AnitaB.org

*KFAS (Korea Foundation for Advanced Studies) Scholarship* *Apr 2010-Feb 2013*  
SK Group

*Dean's List, Scholarship for Honor Student* *Spring & Fall, 2012*  
Ewha Womans University

**OTHERS**

*SIGGRAPH Student Volunteer* *Aug 2018*

- Helped organizing conference talks and aided in introducing new developments of research groups and companies in SIGGRAPH 2018 Vancouver, Canada.

*Hayek Academy Assistant* *Jul 2015 & Jul 2016*

- Managed lectures and classes for economics summer program in Sejong and Busan. Escorted a foreign guest lecturer.

*Holy Family Child Adoption Center Volunteer* *Oct 2013-Feb 2014*

- Aided children (age of 3-6) in learning basic words and numbers.

*Book Translation* *Oct 2013-Feb 2014*

- Co-translated Gordon Tullok's *Foreign Affairs: A Compact History* (World Scientific, 2000) into Korean with Sooyoun Hwang.

*Ewha Archive Volunteer* *Aug 2012-Dec 2012*

- Worked as a history docent at Ewha Archives of Ewha Womans University.