

IBRAHEEM ALHASHIM

PERSONAL INFORMATION

ibraheem.alhashim@gmail.com

ialhashim.github.io

Dammam, Saudi Arabia

+966 540 909 728

EDUCATION

2011-2015 Simon Fraser University, Burnaby

GPA: 3.75 · Computing Science

Thesis: *Topology-Varying Shape Matching and Modeling*

Description: In this thesis we propose a general framework that allows for the analysis and creative modeling of 3D shape sets having rich topological and geometric variation.

Advisors: Dr. Hao ZHANG & Dr. Ghassan HAMARNEH

(*Alain Fournier best thesis award*)

*Doctor of
Philosophy*

2009-2011 Simon Fraser University, Burnaby

GPA: 3.45 · Computing Science

Thesis: *Detail-replicating Shape Stretching*

Description: This thesis proposes a simple and efficient method that can help designers create model variations by applying nonuniform stretching on 3D models with organic geometric details.

Advisor: Dr. Hao ZHANG

Master of Science

2005-2008 Portland State University, Portland

GPA: 3.69 · *Cum Laude* · Computer Science

Bachelor of Science

PUBLICATIONS

Deformation-Driven Shape Correspondence via Shape Recognition

Chenyang Zhu, Renjiao Yi, Wallace Pinto Lira, Ibraheem Alhashim, Kai Xu, Hao Zhang

July 2017 – SIGGRAPH 2017

*ACM Transactions
on Graphics*

Legible Compact Calligrams

Changqing Zou, Junjie Cao, Warunika Ranaweera, Ibraheem Alhashim, Ping Tan, Alla Sheffer, Hao Zhang

July 2016 – SIGGRAPH 2016

Deformation-Driven Topology-Varying 3D Shape Correspondence

Ibraheem ALHASHIM, Kai Xu, Yixin Zhuang, Junjie Cao, Patricio Simari, Hao Zhang

November 2015 – SIGGRAPH Asia 2015

Foldabilizing Furniture

Honghua Li, Ruizhen Hu, Ibraheem Alhashim, Hao Zhang

August 2015 – SIGGRAPH 2015

Topology-Varying 3D Shape Creation via Structural Blending

Ibraheem Alhashim, Honghua Li, Kai Xu, Junjie Cao, Rui Ma, Hao Zhang

July 2014 – SIGGRAPH 2014

Stackabilization

Honghua Li, Ibraheem Alhashim, Hao Zhang, Ariel Shamir, Daniel Cohen-Or

November 2012 – SIGGRAPH Asia 2012

Computer Graphics Forum Mean Curvature Skeletons
Andrea Tagliasacchi, Ibraheem Alhashim, Matt Olson, Hao Zhang
August 2012 – SGP 2012

The Visual Computer Detail-Replicating Shape Stretching
Ibraheem Alhashim, Hao Zhang, Ligang Liu
December 2011

Technical Report Modeling and Correspondence of Topologically Complex 3D Shapes
Ibraheem Alhashim
June 2015 - SFU-CMPT TR 2015-55-2

WORK EXPERIENCE

KAUST 2017 Post Doctoral Fellow, VISUAL COMPUTING CENTER
Research and development on topics relating to 3D shape reconstruction.
Reference: Peter WONKA · peter.wonka@kaust.edu.sa

GrUVi lab 2010–2015 Web developer, VIVARIUM AND GRUVI WEBSITES — SFU
Developed, designed, and maintained the Graphics, Usability, and Visualization (GRUVI) lab's website. gruvi.cs.sfu.ca
Reference: Hao ZHANG · haoz@sfu.ca

Simon Fraser University 2012 Teaching assistant, CMPT 165: Introduction to the Internet and the World Wide Web
Working with students during lap sessions and grading homeworks and exams. Also substituting for instructor when needed.
Reference: Colin STEWART · colinjstewart@gmail.com

2009 & 2011 Teaching assistant, CMPT 128: Introduction to Computing Science for Engineering Students
Reference: John EDGAR · johnwill@sfu.ca

2009 Teaching assistant, CMPT 125: Introduction to Computing Science and Programming
Reference: Diana CUKIERMAN · diana@cs.sfu.ca

Academic & Research Computing 2007–2008 Web developer, ACADEMIC & RESEARCH COMPUTING — PSU
Working on websites such as ecoplexity.org, OregonEncyclopedia.org, Launch PSU, and the biology department alumni website.
Reference: William GARRICK · will@pdx.edu

Portland State University 2007 Course grader, CS 202: Programming Systems
2006 Course grader, CS 163: Data Structures
Grading programming assignments for an undergraduate-level course.
Reference: Karla FANT · karlaf@cs.pdx.edu

COMPUTER SKILLS

Advanced C++, C, C#, JAVA, OpenGL, OpenMP, OpenCV, Qt, L^AT_EX, PHP, javascript, HTML, CSS, SQL, Microsoft Windows, Linux, OS X, Autodesk 3ds Max, Adobe Photoshop, Adobe Illustrator, Adobe After Effects, Adobe Premiere

Intermediate PYTHON, Matlab, MAXScript, GLSL, CUDA, DirectX, Autodesk Maya, KeyShot

Basic RUBY, PowerShell, Maple, Mathematica, Prolog

OTHER INFORMATION

Professional Service 2016 · Reviewer for Transactions on Visualization and Computer Graphics,

Pacific Graphics, The Visual Computer Journal, Graphical Models

2015 · 2014 · Reviewer for SIGGRAPH Asia, Pacific Graphics

2012 · Reviewer for Pacific Graphics

Awards

2015 · Alain Fournier Award, Best Doctoral Dissertation in Computer Graphics

2013 · 2014 · 2015 · Travel and Minor Research Award – SFU

2012 · 2013 · 2015 · Graduate Fellowship, Faculty of Applied Sciences – SFU

2005 to 2015 · King Abdullah Foreign Scholarship Program, Saudi Arabia

Honors

2006 · President's List – PSU

2008 · 2007 · 2006 · Dean's List – PSU

2006 · The National Society of Collegiate Scholars, Tau Sigma National Honor Society – PSU

Communication Skills

2017 · Conference talk at the KAUST Research Conference

2016 · Alain Fournier Award talk at the Graphics Interface Conference

2015 · Conference talk at the SIGGRAPH Asia Technical Papers session

2015 · Conference talk at the SIGGRAPH Technical Papers session

2014 · Conference talk at the SIGGRAPH Technical Papers session

2012 · Conference talk at the SIGGRAPH Asia Technical Papers session

Languages

ARABIC · Native language

ENGLISH · Fluent (near native)

Interests

Volleyball · Photography · Hiking · Ultimate · Science · Reading
Motion graphics · Movies

REFERENCES

Dr. Hao Zhang

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Simon Fraser University

Burnaby, BC V5A 1S6 Canada

haoz@sfu.ca

Dr. Ghassan Hamarneh

Professor, School of Computing Science

Simon Fraser University

Burnaby, BC V5A 1S6 Canada

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Dr. Oliver van Kaick

Assistant Professor, School of Computer Science

Carleton University, Canada

oliver.vankaick@carleton.ca

Dr. Kai Xu

Associate Professor, School of Computer Science

NUDT, China

kevin.kai.xu@gmail.com

October 2, 2017