

IBRAHEEM ALHASHIM

PERSONAL INFORMATION

ibraheem.alhashim@gmail.com

ialhashim.github.io

Dammam, Saudi Arabia

+966 540 909 728

EDUCATION

2011 – 2016 Simon Fraser University, Burnaby, Canada

*Doctor of
Philosophy*

Computing Science · GPA: 3.8

Thesis: Topology-Varying Shape Matching and Modeling: 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

2009 – 2011 Simon Fraser University, Burnaby, Canada

Master of Science

Computing Science · GPA: 3.6

Thesis: Detail-replicating Shape Stretching: 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

2005 – 2008 Portland State University, Portland, USA

Bachelor of Science

Computer Science · **Cum Laude** · GPA: 3.7

WORK EXPERIENCE

2017 – *Now* Post Doctoral Fellow, VISUAL COMPUTING CENTER

KAUST

Research and development in topics relating to 3D shape reconstruction and deep learning.

Reference: Peter WONKA · peter.wonka@kaust.edu.sa

2012 Teaching assistant, CMPT 165: Introduction to the Internet and the World Wide Web

*Simon Fraser
University*

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

2010 – 2015 Web developer, VIVARIUM AND GRUVI WEBSITES — SFU

GrUVi lab

Developed, designed, and maintained the Graphics, Usability, and Visualization (GRUVI) lab's website. gruvi.cs.sfu.ca

Reference: Hao ZHANG · haoz@sfu.ca

2007–2008 Web developer, ACADEMIC & RESEARCH COMPUTING — PSU

*Academic &
Research
Computing*

Working on websites such as ecoplexity.org, OregonEncyclopedia.org, Launch PSU, and the biology department alumni website.

Reference: William GARRICK · will@pdx.edu

2007 Course grader, CS 202: Programming Systems

2006 Course grader, CS 163: Data Structures

Portland State
University

Grading programming assignments for an undergraduate-level course.

Reference: Karla FANT · karlaf@cs.pdx.edu

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

Mean Curvature Skeletons

Andrea Tagliasacchi, Ibraheem Alhashim, Matt Olson, Hao Zhang

August 2012 – SGP 2012

Computer
Graphics Forum

Detail-Replicating Shape Stretching

Ibraheem Alhashim, Hao Zhang, Ligang Liu

December 2011

The Visual
Computer

Modeling and Correspondence of Topologically Complex 3D Shapes

Ibraheem Alhashim

June 2015 - SFU-CMPT TR 2015-55-2

Technical Report

COMPUTER SKILLS

Advanced

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

Intermediate

Matlab, PowerShell, MAXScript, GLSL, CUDA, DirectX, Autodesk Maya

OTHER INFORMATION

Professional
Activities

2018 · Reviewer for Computer Graphics International, Computer Graphics
Forum

2017 · Reviewer for Computers & Graphics, the Visual Computer Journal

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 (Canada)**

2013 · 2014 · 2015 · Travel and Minor Research Awards – 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

Talks

2018 · Workshop on deep learning at the MiSK Foundation

2017 · Invited 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

Professor, School of Computing Science
Simon Fraser University
Burnaby, Canada
haoz@sfu.ca

Dr. Ghassan Hamarneh

Professor, School of Computing Science
Simon Fraser University
Burnaby, Canada
hamarneh@sfu.ca

Dr. Peter Wonka

Professor, Computer Science
King Abdullah University of Science and Technology
Thuwal, Saudi Arabia
peter.wonka@kaust.edu.sa

Dr. Kai Xu

Associate Professor, School of Computer Science
NUDT, China
kevin.kai.xu@gmail.com