

IBRAHEEM ALHASHIM

PERSONAL INFORMATION

ibraheem.alhashim@gmail.com — ialhashim.github.io
+966 540 909 728, Ad Dammam, Saudi Arabia

EDUCATION

- PhD* 2011 – 2016 Simon Fraser University, Burnaby, Canada
Computer Science · **Alain Fournier best PhD thesis award**
- Master of Science* 2009 – 2011 Simon Fraser University, Burnaby, Canada
Computer Science
- Bachelor of Science* 2005 – 2008 Portland State University, Portland, USA
Computer Science · **Cum Laude**
- Nanodegree* 2018 Deep Learning Nanodegree Foundation, Udacity.com
Deep learning

WORK EXPERIENCE

- SDAIA - NCAI* 2021 – *Now* **Senior Research Scientist in AI**
Leading the creativity sector at the National Center for Artificial Intelligence (NCAI) at the Saudi Data and Artificial Intelligence Authority (SDAIA). The team is responsible for adapting state-of-the-art AI models into real-world products in many areas including image and video generation, photo restoration and colorization, audio restoration and generation, and video understanding.
- NyarTech.com* 2018 – *Now* **Chief Technology Officer**
Technology consulting and development lead for Artificial Intelligence applications and other disruptive tech in the areas of logistics and health.
- Applied Research Department - RC* 2019 – 2022 **AI Consultant**
Consulting on applying state-of-the-art research in computer vision and audio research at the ARD.
- KAUST* 2019 – 2021 **Researcher, VISUAL COMPUTING CENTER**
Developing deep learning technologies for the task of estimating high quality depth maps from images and large scale texture synthesis.
Reference: Dr. Peter Wonka · peter.wonka@kaust.edu.sa
- KAUST* 2017 – 2019 **Post Doctoral Fellow, VISUAL COMPUTING CENTER**
Research and development in the area of 3D shape reconstruction, computer vision, and deep learning.
- Simon Fraser University* 2012 Teaching assistant, CMPT 165: Introduction to the Internet and the World Wide Web
2009 & 2011 Teaching assistant, CMPT 128: Introduction to Computing Science for Engineering Students
- GrUVi lab* 2010 – 2015 **Web developer, VIVARIUM AND GRUVI WEBSITES — SFU**
Developed, designed, and maintained the Graphics, Usability, and Visualization (GRUVI) lab's website.
- 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.

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

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

SELECTED PUBLICATIONS

LocalBins: Improving Depth Estimation by Learning Local
Distributions

ECCV 2022

Shariq Farooq Bhat, Ibraheem Alhashim, Peter Wonka
October 2022 – ECCV 2022

Self-Supervised Learning of Domain Invariant Features for Depth
Estimation

WACV 2022

Hiroyasu Akada, Shariq Farooq Bhat, Ibraheem Alhashim, Peter Wonka
January 2022 – WACV 2022

AdaBins: Depth Estimation using Adaptive Bins

CVPR 2021

Shariq Farooq Bhat, Ibraheem Alhashim, Peter Wonka
June 2021 – CVPR 2021

TileGAN: Synthesis of Large-Scale Non-Homogeneous Textures

*ACM Transactions
on Graphics*

Anna Fruehstueck, Ibraheem Alhashim, Peter Wonka
July 2019 – SIGGRAPH 2019

High Quality Monocular Depth Estimation via Transfer Learning

CoRR

Ibraheem Alhashim and Peter Wonka
December 2018

Deformation-Driven Shape Correspondence via Shape Recognition

*ACM Transactions
on Graphics*

Chenyang Zhu, Renjiao Yi, Wallace Pinto Lira, Ibraheem Alhashim, Kai Xu,
Hao Zhang
July 2017 – SIGGRAPH 2017

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

Mean Curvature Skeletons

*Computer
Graphics Forum*

Andrea Tagliasacchi, Ibraheem Alhashim, Matt Olson, Hao Zhang
August 2012 – SGP 2012

Detail-Replicating Shape Stretching

*The Visual
Computer*

Ibraheem Alhashim, Hao Zhang, Ligang Liu
December 2011

OTHER INFORMATION

*Professional
Activities*

2022 · External advisory committee member for the Bachelor of Science in Artificial Intelligence Program at IAU, Reviewer for Graphics Interface 2022, Reviewer for SIGGRAPH Asia 2022, Reviewer for WACV 2023

2018 · Reviewer for Eurographics, Computer Graphics Forum, The Visual Computer, and Computer Graphics International

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

2016 · **Alain Fournier Award, Best Doctoral Dissertation in Computer Graphics (Canada)**

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

Talks

2022 · Workshop on computer vision and deep learning at the Eastern Hackathon

2020 · Webinar on Practical Deep Learning for Computer Vision at KFUPM

2018 · Invited workshop on deep learning at the MiSK Foundation in Riyadh

2017 · Invited talk at the KAUST Research Conference

2016 · Alain Fournier Award talk at the Graphics Interface Conference

2015 · Conference talks at the SIGGRAPH and SIGGRAPH Asia Technical Papers sessions

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

August 2, 2022