

THU NGUYEN-PHUOC

I am a research scientist at Reality Labs Research, Meta. Previously, I was a PhD student and MSCA FIRE Fellow in Visual Computing at The Centre for Digital Entertainment (CDE), University of Bath. My research interest includes machine learning, 3D vision and computer graphics, in particular, rendering and inverse rendering.

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monkeyoverflow.com
github.com/thunguyenphuoc

Education

University of Bath

PhD researcher in Computer Science
Bath, UK, Oct 2016 - May 2022

University of Stuttgart

MSc Computational Design and Digital Fabrication
Stuttgart, Germany, Oct 2014 - Oct 2016

University of Bath

BSc (Hons) Architecture
Bath, UK, Sep 2010 - July 2014

Scholarships & Awards

- Shortlisted for University of Bath Godfrey and Sue Hall Postgraduate Research Student Prize
- Research Fellowship, EU Marie Skłodowska-Curie Actions (MSCA FIRE), 2016-2021
- Best Student Poster Award, Machine Learning Summer School London, 2019
- Travel grants: ICCV 2019, NeurIPS 2018, Women in Machine Learning NeurIPS 2018, Smart Geometry 2014
- Summer Research Fellowship, AAC 2014

Experience

Reality Labs Research, Meta (previously FRL Research)
Research Scientist - Current

Reality Labs Research, Meta (previously FRL Research)

Research Scientist Intern
London, UK, Sep - Dec, 2021

DeepMind

Research Scientist Intern
London, UK, April - Aug., 2021

Lambda Labs / Deep Voodoo studio

Machine Learning Consultant
San Francisco, USA, Jan. - April 2021

Adobe Research

Research Intern
San Jose, USA, Feb. - June, 2020

Smart Geometry Processing, UCL

Visiting Researcher
Host: Professor Niloy Mitra
London, UK, Aug.-Nov., 2019

Lambda Labs

Visiting Researcher
Palo Alto, USA, Oct. 2017

Institute for Computational Design and Construction

University of Stuttgart
Student Research Assistant
Stuttgart, Germany, 2015 - 2016

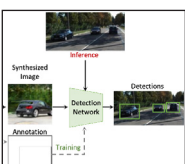
Publications



SNeRF: Stylized Neural Implicit Representations for 3D scenes

Thu Nguyen-Phuoc, Feng Liu, Lei Xiao

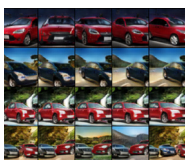
SIGGRAPH 2022 [PDF](#) [Project page](#)



SSOD: Self-Supervised Object Detection via Generative Image Synthesis

Siva Karthik Mustikovela, Shalini De Mello, Aayush Prakash, Umar Iqbal, Sifei Liu, Thu Nguyen-Phuoc, Carsten Rother, Jan Kautz

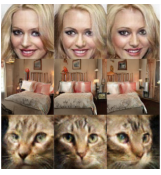
ICCV 2021 [PDF](#) [Project page](#)



BlockGAN: Learning 3D Object-aware Scene Representations from Unlabelled Images

Thu Nguyen-Phuoc, Christian Richardt, Long Mai, Yongliang Yang, Niloy Mitra

NeurIPS 2020 [PDF](#) [Project page](#)



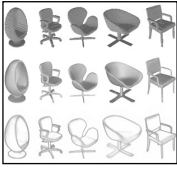
HoloGAN: Unsupervised learning of 3D representations from natural images

Thu Nguyen-Phuoc, Chuan Li, Lucas Theis, Christian Richardt, Yongliang Yang

ICCV 2019

[PDF](#)

[Project page](#)



RenderNet: A deep convolutional network for differentiable rendering from 3D shapes

Thu Nguyen-Phuoc, Chuan Li, Stephen Balaban, Yongliang Yang

NeurIPS 2018

[PDF](#)

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Invited talks

Neural rendering and inverse rendering using physical inductive biases

UCL Centre for Artificial Intelligence (Oct, 2020)

NVIDIA (June, 2020)

NVIDIA GTC (March, 2020)

BAIR, UC Berkeley, US (February, 2020)

Microsoft Research Cambridge, Cambridge, UK (September 2019)

Machine Learning Tutorial Series, Imperial College London, London, UK (March 2019)

CoTAI Tutorial Seminar, Ho Chi Minh City, Vietnam (July 2019)

HoloGAN: Unsupervised learning of 3D representations from natural images

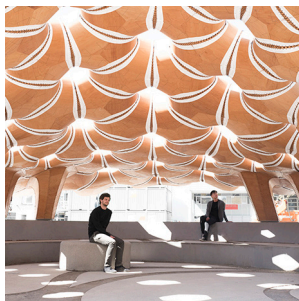
BMVA symposium: Generative Networks In Computer Vision and Machine Learning (Nov 2019)

RenderNet: A deep convolutional network for differentiable rendering from 3D shapes

Smart Geometry Processing Group, University College London, London, UK (Nov 2018)

London NIPS talk, University College London, London, UK (Nov 2018)

Other projects

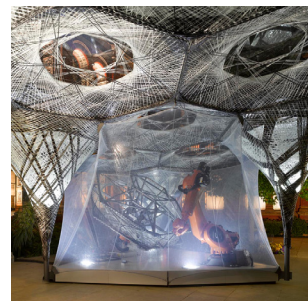


ICD/ITKE Research Pavilion 2015-2016

Winner of the Small Scale Architecture category,

ArchDaily 2017 Building of the Year Awards

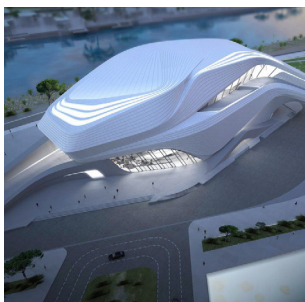
Institute for Computational Design 2015 - 2016



Elytra Filament Pavilion at V&A museum, London

Second prize in the category DETAIL Structure
for the DETAIL PRIZE 2016.

Institute for Computational Design 2015 - 2016



Grand Théâtre de Rabat

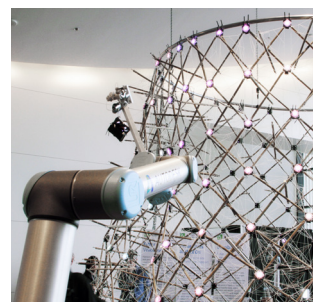
Zaha Hadid Architects 2013



Changsha Meixihu International

Culture and Arts Center

Zaha Hadid Architects 2013



Autodesk Pavilion

Institute for Computational Design
in collaboration with Autodesk 2015