Sungyong (David) Baik

L +82-10-6319-5430 | ☑ dsybaik@snu.ac.kr | Google Schol

Education _

Seoul National University

Seoul, Korea

Sep. 2015 - Present

M.S. AND PH.D. CANDIDATE IN ELECTRICAL ENGINEERING AND COMPUTER SCIENCE

University of Toronto

Toronto, Canada Sep. 2010 - Jun. 2015

BASC IN ENGINEERING SCIENCE WITH A MAJOR IN ELECTRICAL AND COMPUTER ENGINEERING, CGPA: 3.75/4.0

Research Interests

Advisor: Prof. Kyoung Mu Lee

Computer Vision and Machine Learning meta-learning, few-shot learning, domain adaptation

Publications

Meta-Learning with Adaptive Hyperparameters

NeurIPS2020

SUNGYONG BAIK, MYUNGSUB CHOI, JANGHOON CHOI, HEEWON KIM, KYOUNG MU LEE

Domain Adaptation of Learned Features for Visual Localization

BMVC2020

SUNGYONG BAIK, HYO JIN KIM, TIANWEI SHEN, EDDY ILG, KYOUNG MU LEE, CHRIS SWEENEY

• Work done while at Facebook Reality Labs

Learning to Forget for Meta-Learning SUNGYONG BAIK, SEOKIL HONG, KYOUNG MU LEE

CVPR2020

Scene-Adaptive Video Frame Interpolation via Meta-Learning

CVPR2020

Myungsub Choi, Janghoon Choi, **Sungyong Baik**, Tae Hyun Kim, Kyoung Mu Lee

Learning to Remember Past to Predict Future for Visual Tracking SUNGYONG BAIK, JUNSEOK KWON, KYOUNG MU LEE

ICIP2019

• Oral Presentation

Relevant Experience _____

Facebook Reality Labs Redmond, WA

RESEARCH INTERN

Nov. 2019 - Apr. 2020

- Few-Shot Domain Adaptation for Visual Localization
- BMVC2020 publication

Projects _____

Few-Shot Product Defect Detection

Seoul, Korea

COLLABORATION WITH HYUNDAI

Apr. 2019 - Present

Large-scale Object Recognition with Few Examples

Seoul, Korea

Seoul, Korea

COLLABORATION WITH SAMSUNG

May. 2017 - May 2018

Traffic Sign Recognition System

Apr. 2017 - Dec. 2017

COLLABORATION WITH LG

Sep. 2013 - Apr. 2014

COLLABORATION WITH SAMSUNG

Apr. 2016 - Jun. 2017

Experience _____

University of Toronto Toronto, Canada

RESEARCH ASSISTANT May 2014 - Aug. 2014

• Analysis on the security of quantum cryptography

Marvell Semiconductor Santa Clara, CA

ASIC Design Verification Engineer

Test bench development for transaction protocols

University of TorontoToronto, CanadaRESEARCH ASSISTANTMay 2013 - Aug. 2013

• Analysis on the synchronized smart grid system under cyber-attacks

University of Toronto Toronto, Canada

RESEARCH ASSISTANT May 2012 - Aug. 2012

• Control system development for dc-dc converters

 Publication: Noninvasive self-tuning output capacitor time constant estimator for low power digitally controlled dc-dc converters. Aleksandar Radić, David Baik, Adrian Straka, Aleksandar Prodić, Robert de Nie. APEC2013. Best Presentation Award

Teaching Experience _____

Seoul National University

Seoul, Korea

TEACHING ASSISTANT Mar. 2019 - Jun. 2019

• Undergrad Final Year Project

Seoul National University Seoul, Korea

TEACHING ASSISTANT Mar. 2019 - Jun. 2019

• New Trends in Computer Vision

Seoul National University Seoul, Korea

TEACHING ASSISTANT Mar. 2018 - Jun. 2018

• Introduction to Computer Vision

University of Toronto, Canada

TEACHING ASSISTANT Sep. 2014 - Dec. 2014

• First-year Calculus course

University of Toronto Toronto, Canada

TEACHING ASSISTANT Sep. 2012 - Dec. 2012

• First-year Calculus course

Awards _____

Samsung Research Scholarship	2020 - Present
Dean's Honours List	2011, 2012, 2013
UTEA (University of Toronto Excellence Awards) Award for Summer Research	2013
JOHN M. EMPEY SCHOLARSHIP	2011
FACULTY OF APPLIED SCIENCE AND ENGINEERING ADMISSION SCHOLARSHIP	2010
MATTY RADANOVSKI SCHOLADSHID AWADD	2010

Skills _____