Baris Gecer

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EDUCATION

Imperial College London, Department of Computing.; London, UK
Doctor of Philosophy (Ph.D), October 2016 – September 2019 (Expected)
Advisors: Stefanos Zafeiriou and Tae-Kyun (T-K) Kim

Bilkent University, Graduate School of Engineering and Science; Ankara, Turkey
Master of Science in Computer Engineering, September 2014 – June 2016
Advisor: Selim Aksoy
GPA 3.86

International Computer Vision Summer School (ICVSS); Sicily, Italy
Participant as the only MSc student in the school, 12 – 18 July 2015

Hacettepe University, Faculty of Engineering; Ankara, Turkey
Bachelor of Science in Computer Engineering, September 2009 – June 2014
GPA 3.55, top 5th place among 112 students in the department, graduated as 'High Honor Student'

University of Groningen, Faculty of Mathematics and Natural Sc.; Groningen, the Netherlands
Exchange Student in Computing Science, September 2012 – June 2013
GPA 8.43/10, followed only M.Sc courses although I was a BSc exchange student

PUBLICATIONS

Baris Gecer, Binod Bhattarai, Josef Kittler, & Tae-Kyun Kim. "Semi-supervised Adversarial Learning to Generate Photorealistic Images of New Identities from 3D Morphable Model". In: European Conference on Computer Vision (ECCV 2018).

Baris Gecer, Selim Aksoy, Ezgi Mercan, Linda G Shapiro, Donald L Weaver, Joann G Elmore. "Detection and classification of breast cancer in whole slide histopathology images using deep convolutional networks" Pattern Recognition (2018)

Baris Gecer, Vassileios Balntas, & Tae-Kyun Kim. "Learning Deep Convolutional Embeddings for Face Representation Using Joint Sample-and Set-based Supervision". In: The IEEE International Conference on Computer Vision workshop (ICCVW 2017).

Baris Gecer, George Azzopardi, & Nicolai Petkov. "Color-blob-based COSFIRE filters for object recognition". In: Image and Vision Computing, 57, 165-174 (2017).

Baris Gecer (2016). "Detection and classification of breast cancer in whole slide histopathology images using deep convolutional networks" (MSc. dissertation, Bilkent University).

EXPERIENCE

FaceSoft; London, UK
Computer Vision Scientist July 2018 – Present
- Please refer to company website for more details http://facesoft.org/

Tesla Project; London, UK
Research Assistant July 2018 – Present
- Please refer to project website for more details http://tesla-project.eu

Visio Impulse; London, UK
Research Engineer February – July 2018
- Unsupervised anomaly detection by auto-encoders and generative adversarial networks
- Consultancy to Shell on varying computer vision applications

FACER2VM; London- Guildford, UK
Research Assistant October 2016 – Present
- We propose a novel end-to-end semi-supervised adversarial training method to generate photorealistic face images of new identities with wide ranges of expressions, poses, and illuminations conditioned by a 3D morphable model.
- Please refer to project website for more details https://facer2vm.org/about/

Bilkent University, RETINA Vision and Learning Group; Ankara, Turkey
Research Assistant September 2014 – June 2016
- Conducting research on classification of whole-slide breast histopathology images by mimicking pathologists with deep convolutional learning, under the supervision of Prof. Selim Aksoy during my M.S. study at Bilkent University. This study is funded by TUBITAK.

Bilkent University, Computer Engineering Department; Ankara, Turkey
Teaching Assistant September 2014 – June 2016
- CS464 Introduction to Machine Learning (Spring 2016)
- CS484 Image Analysis (Fall 2015)
- CS113 Introduction to Computing for Engineers (Spring 2015)
- CS101 Algorithms and Programming 1 (Fall 2014)

MIPS R&D Inc.; Kayseri, Turkey
Academic Consultant November 2015 – June 2016
- Aim of the project is detection and classification of sperm cells given microscopic videos. This project is funded by TUBITAK.

University of Groningen, Intelligent Systems Lab.; Groningen, the Netherlands
Research Intern March 2013 – June 2013
- Developed an innovative method for object detection and recognition that combines shape and color information with Prof. Nicolai Petkov and Dr. George Azzopardi. It then, turned into a scientific paper which is submitted to Journal of Image and Vision Computing (see *Publications*).

Hacettepe University, Computer Engineering Department; Ankara, Turkey
Research Intern June 2012 – September 2012
- Developed a human counter algorithm with one of my classmates under the supervision of Dr. Dr. Ahmet Burak Can

SKILLS & EXPERTISE

Programming Languages: Python, Matlab, C/C++, Java, C#, Javascript, Assembly, Linux Shell
Deep Learning Libraries: Tensorflow, MatConvNet, Keras
Others: LaTeX, GIT

AWARDS & RECOGNITIONS

Ministry of National Education,Republic of Turkey
Very prestigious scholarship that fully covers live expenses and tuition fees 2015 / October

Bilkent University & ICVSS
Acceptance and Financial Support 2015 / July
- Accepted for *International Computer Vision Summer School* as the only MSc student.
- Fully supported financially by Bilkent University for the Summer School

Tuition Waiver 2014 – 2016
- During 2 years of MSc. study at Bilkent University.

TUBITAK (The Scientific and Technical Research Council of Turkey)
Graduate Research scholarship 2014 – 2016

Erasmus exchange programme
Scholarship for life expenses during exchange period (10 months) in The Netherlands 2012 – 2013

ACM ICPC
Regional representative at the southeastern regional programming contest of ACM ICPC 2012/ Oct.

Hacettepe University
Graduated from BSc Computer Engineering as High Honor Student 2009 – 2014
Excellence Scholarship 2009 – 2014
- Very competitive and prestigious scholarship during my bachelors study with 1% acceptance rate