

Can (Jon) Temel



Researcher
Engineer



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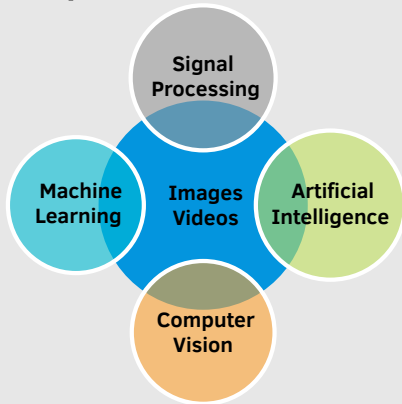


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Expertise



Academic Career —

*since entering PhD program in 2011

Years involved: 8

Publications: 30

Provisional patents: 4

Clinical study: 1

Mentored students: 13

Thesis Committee: 1

Fellowship: 1

Funding proposals: 21

Accepted proposals: 7

Awards: 3

Travel grants: 2

Coding: C, C++, Python

ML Library: Caffe, Pytorch

Other software: Matlab, Latex

Education

- 2016 **PhD., Electrical and Computer Engineering**, GPA: 4.0
Georgia Institute of Technology, Minor: Computer Science
- 2013 **MS., Electrical and Computer Engineering**, GPA: 4.0
Georgia Institute of Technology, Minor: Management

Experience

- Jan 2017 - Present **Postdoctoral Research Fellow** Georgia Institute of Technology
- **Research:** Automated eye examination and monitoring, visual detection under challenging conditions, image quality assessment.
 - **Organization:** Co-organized an international competition as part of a flagship IEEE conference that engaged more than 147 parties from more than 30 countries over one year. [VIP Cup 2017]
 - **Collaboration:** Emory University School of Medicine, Grady Memorial Hospital, Oak Ridge National Laboratory, Ford Motor Company, Kolon Industries, Microsoft Azure, Georgia Research Alliance.
 - **Prototyping:** Managed the development of a portable eye imaging and examination device that is currently used for a clinical study.
 - **Datasets:** Introduced three large-scale (millions of images) recognition and detection datasets (CURE-OR, CURE-TSR, CURE-TSD).
 - **Funding:** Contributed to *funding proposals* that received \$850,000 in collaboration with graduate students and research faculty.
 - **Mentoring:** Group work with six graduate students led to *5 provisional patents, 1 magazine, 6 conference, and 2 journal* articles.
- May 2014 - Aug 2014 **Systems Engineering Intern** Machine Learning Lab, Texas Instruments
- **Development:** State-of-the-art deep networks in Matlab and C++ for digit classification (MNIST), object classification (CIFAR10, CIFAR100), and scene labelling (Stanford database). [Online]
 - **Deployment:** Deployed deep learning-based Matlab routines to a load sharing facility in C++, which *accelerated* scene labeling by 16 times and the classification by 40 times.
- Aug 2011 - Dec 2016 **Research Assistant** OLIVES Lab, Georgia Institute of Technology
- **Research:** Image quality assessment (13 papers), deep learning-based image processing and computer vision (tutorials), high color range imaging (demos), vital sign monitoring (1 paper), computational aesthetics (1 paper), seismic interpretation (1 paper), 3D reconstruction, quality, coding, and streaming (6 papers). [Online]
 - **Demos:** Project demos on PCs, Nvidia kits, and smartphones.
 - **Collaboration:** Texas Instruments, European Network on Quality of Experience in Multimedia Systems and Services (Qualinet).

Accomplishments and Honors

- Received Best PhD Thesis Award from Sigma Xi Honor Society, 2017.
- Received Research Excellence Award from Georgia Tech, School of ECE, 2017.
- Received Outstanding Research Award from Georgia Tech, CSIP, 2017.
- Obtained highest GPA possible in MS and PhD degrees at Georgia Tech.
- Received Texas Instrument Leadership University Scholarship, 2012-2015
- Authored one of the most downloaded articles in the Elsevier's SP:IC journal, 2016.
- Ranked 1st at the Texas Instruments Elevator Pitch competition, 2012.
- Received Summer School Grant from QUALINET, only recipient from US in 2014.
- Received Travel Grant from IEEE Signal Processing Society, ICME 2016.