


Dogancan Temel

Researcher, Engineer

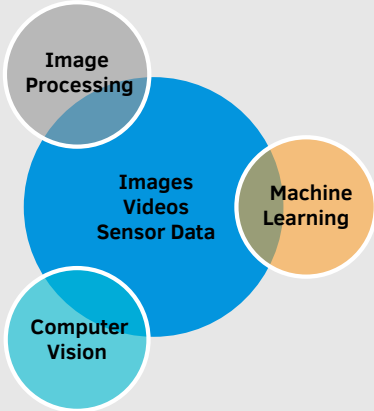
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Expertise



Academic Career —

Years involved: 9

Publications: 35+

Citations: 250+

H-Index: 11

Patents: 9(P), 3(NP)

Clinical study: 1

Mentored students: 14

PhD fellowship: 1

Funding proposals: 8 [Ac]/ 25[Sub]

Funding received: \$1M+

Seed startup funding: 1

Research awards: 5

Travel grants: 2

Coding: Python, C, C++,

ML Library: PyTorch, Caffe

Other software: MATLAB, LaTeX

I. Academic Background, Accomplishments, and Honors

Education

2016 **PhD., Electrical and Computer Engineering**, Adv.: [Prof. AlRegib](#)
Comm.: [Prof. McClellan](#), [Prof. Yezzi](#), [Prof. Anderson](#), [Prof. Gabraeel](#)
Georgia Tech, Atlanta, Georgia, USA, Minor: Computer Science

2013 **MS., Electrical and Computer Engineering**
Georgia Tech, Atlanta, Georgia, USA, Minor: Management

2011 **BS., Electrical and Electronics Engineering**
Orta Dogu Teknik Universitesi, Ankara, Turkey

Experience

2019 - Present **Co-founder** [Stealth Mode Startup](#)
Image-based diagnostics, precision medicine, biomarker discovery.

2017 - 2020 **Postdoctoral Research Fellow** [OLIVES Lab, Georgia Institute of Technology](#)

- **Medical-R&D:** Image-based diagnostics, precision medicine, biomarker discovery, pupillary assessment [[Georgia Tech Startup](#)].
- **General:** Anomaly detection and visual explanation for deep visual recognition networks through backpropagated gradients.
- **AV-ADAS R&D:** Aberrant event detection in traffic, context-aware parking space monitoring, traffic sign recognition in the wild.
- **Organization:** IEEE Conf. Compet. (145+ teams, 30+ countries).
- **Collaboration:** Duke Med. Sch., Emory Med. Sch., Grady, Oak Ridge Nat. Lab., Ford, Kolon Ind., Microsoft, Georgia Research Alliance.
- **Prototyping:** Automated eye health examination headset.
- **Clinical study:** IRB-approved study with 500+ patients.
- **Datasets:** [CURE-OR](#), [CURE-TSR](#), [CURE-TSD](#) (>1M images/frames).

2014 Summer **Systems Engineering Intern** [Machine Learning Lab, Texas Instruments](#)

- **Visual Recognition:** Developed state-of-the-art deep networks in Matlab and C++ for digit recognition (MNIST), object classification (CIFAR10, CIFAR100), and scene labelling (Stanford), [[Online](#)].
- **High Performance Computing:** *Accelerated* scene labeling training by *16 times* and image classification training by *40 times*, [[Online](#)].

2011 - 2016 **Research Assistant** [OLIVES Lab, Georgia Institute of Technology](#)

- **Research:** Image quality assessment [[Thesis](#)], depth-based 3D streaming and quality assessment [[3D Papers](#)], computational aesthetics, heart rate monitoring, seismic interpretation [[All Papers](#)].
- **Demos:** Project demos on PCs and smartphones.
- **Collaboration:** Texas Inst., European QoE Network Qualinet.

Accomplishments and Honors

- [Research Spotlight Award](#) from Georgia Tech, School of ECE, 2020.
- [Top Viewed Special Session Paper Award](#) in ICIP 2020.
- [Selected Cover](#) of IEEE Journal of Biomedical and Health Informatics, 2020.
- [Best Paper Award](#) at IEEE Int. Conf. on Image Processing, 2019.
- [Best PhD Thesis Award](#) from Sigma Xi: The Scien. Res. Honor Soc., 2017.
- [Research Excellence Award](#) from Georgia Tech, School of ECE, 2017.
- [Outstanding Research Award](#) from Georgia Tech, Cent. Sig. Inf. Proc., 2017.
- [Most Downloaded Article Finalist](#) in the Elsevier's SP:IC journal, 2016.
- [IEEE Travel Grant](#) from Signal Processing Society, 2016.
- [Highest GPA possible](#) in MS (2013) and PhD (2016) at Georgia Tech.
- [Texas Instruments Leader. Univer. Fellowship](#) for 4 cons. years, 2012-2015
- [Summer School Grant](#) from QUALINET, France, only recipient from US, 2014.
- [First Rank at Elevator Pitch Competition](#) by Texas Instruments, 2012.
- [Bulent Kerim Altay Award](#) for highest GPA from ODTU EEE, 2011.