

# Tsung-Wei Ke

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## Overview

My research interest is in understanding the structures and contexts embedded in the image. My recent research is about representation learning for weakly supervised and unsupervised image segmentation. I've published several papers in the top-tier peer-reviewed conference in computer vision.

## Education

Ph.D. candidate,	University of California, Berkeley,	in Vision Science Program
	Computer vision and human vision,	Advisor: Dr. Stella Yu
B.S.,	National Taiwan University,	in Chemical Engineering

## Selected Publications

*Unsupervised Hierarchical Semantic Segmentation with Multiview Cosegmentation and Clustering Transformers*

**T.W. Ke**, J.J. Hwang, Y. Guo, X. Wang and Stella X. Yu CVPR 2022 **oral**

*Universal Weakly Supervised Segmentation by Pixel-to-Segment Contrastive Learning*

**Tsung-Wei Ke**, Jyh-Jing Hwang and Stella X. Yu ICLR 2021

*Adversarial Structure Matching for Structured Prediction Tasks*

Jyh-Jing Hwang\*, **Tsung-Wei Ke\***, Jianbo Shi and Stella X. Yu CVPR2019

*Adaptive Affinity Field for Semantic Segmentation*

**Tsung-Wei Ke\***, Jyh-Jing Hwang\*, Ziwei Liu and Stella X. Yu ECCV2018

*MultiGrid Neural Architecture*

**Tsung-Wei Ke**, Michael Maire and Stella X. Yu CVPR2017

*Mooney Face Classification And Prediction By Learning Across Tone*

**Tsung-Wei Ke**, Stella X. Yu and David Whitney ICIP2017 **oral**

*Mooney Faces from Photos*

**Tsung-Wei Ke**, Stella X. Yu and David Whitney VSS2017 **oral**

*Variational Convolutional Networks for Human-Centric Annotations*

**Tsung-Wei Ke**, Che-Wei Lin, Tyng-Luh Liu, Davi Geiger ACCV2016 **oral**

## Appointments

2021-2022: Research Intern, Robert Bosch, Sunnyvale

2021-2021: Research Intern, Waymo LLC, Mountain View

2018-2020: Research Fellow, University of California, Berkeley

- participated in the project of animal detection and classification in wildlife with USGS
- participated in the project of scene segmentation in aerial imagery with Samsung

2018, 2019: Graduate Teaching Assistant, University of California, Berkeley

2016-2018: Research Associate, International Computer Science Institute, Berkeley

- participated in the project of material recognition in cityscape imagery with Samsung
- participated in the project of particle screening for X-ray crystallography with NLBL