

# Cheng-Chun Hsu

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## Education

The University of Texas at Austin

🎓 M.S. IN COMPUTER SCIENCE

TX, USA

Sep 2021 – present

National Taiwan University of Science and Technology

🎓 B.S. IN COMPUTER SCIENCE

Taipei, Taiwan

Sep 2015 – Jun 2019

## Publications

### Conference Articles

**Ditto in the House: Building Articulated Models of Indoor Scenes through Interactive Perception**

Cheng-Chun Hsu, Zhenyu Jiang, and Yuke Zhu

In submission



**Ditto: Building Digital Twins of Articulated Objects from Interaction**

Zhenyu Jiang, Cheng-Chun Hsu, and Yuke Zhu

CVPR 2022



Oral presentation

**Every Pixel Matters: Center-aware Feature Alignment for Domain Adaptive Object Detector**

Cheng-Chun Hsu, Yi-Hsuan Tsai, Yen-Yu Lin, and Ming-Hsuan Yang

ECCV 2020



**Weakly Supervised Instance Segmentation using the Bounding Box Tightness Prior**

Cheng-Chun Hsu\*, Kuang-Jui Hsu\*, Chung-Chi Tsai, Yen-Yu Lin, and Yung-Yu Chuang

NeurIPS 2019



**What Dress Fits Me Best? Fashion Recommendation on the Clothing Style for Personal Body Shape**

Shintami Chusnul Hidayati, Cheng-Chun Hsu, Yu-Ting Chang, Kai-Lung Hua, Jianlong Fu, and Wen-Huang Cheng

MM 2018



Oral presentation

### Technical Reports

**Center-context-gap Refinement for Weakly Supervised Instance Segmentation**

Cheng-Chun Hsu\*, Kuang-Jui Hsu\*, Chiachen Ho, Yen-Yu Lin, and Yung-Yu Chuang

2019



## Experience

UT Robot Perception and Learning Lab

RESEARCHER

TX, USA

Sep 2021 – present

➤ Designed a framework for digitizing interactive physical objects for robot training.

➤ Designed a framework for building articulated models of indoor scenes by interactive perception.

Advisor: [Prof. Yuke Zhu](#)

Facebook Reality Labs

CONTINGENT WORKER (remote)

London, UK

Sep 2020 – Jun 2021

➤ Improved long-term visual localization tasks via adaptive features and semantic consistency.

➤ Developed visual localization benchmark analysis tools and evaluation pipelines.

➤ Developed a 3D annotation tool for OpenSfM based on Three.js and Flask. 🔗

Supervisor: [Dr. Vassileios Balntas](#)

Vision and Learning Lab, Academia Sinica

RESEARCH ASSISTANT

Taipei, Taiwan

Jul 2018 – Aug 2020

➤ Designed an end-to-end trainable network for instance segmentation with only box annotations.

➤ Designed a framework for domain adaptation in object detection by pixel-level object parts mining.

Advisor: [Prof. Yen-Yu Lin](#) and [Prof. Ming-Hsuan Yang](#)

**Multimedia Computing Lab, Academia Sinica**

Taipei, Taiwan

RESEARCHER

Jul 2017 – Apr 2018

► Designed a cross-modality framework to learn the compatibility of clothing styles and body shapes.

Advisor: Prof. Wen-Huang Cheng

**Honors & Awards**

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**Appier AI Scholarship for NeurIPS 2019**, Appier

2019

**Academic Excellence Award**, NTUST

2018

🏆 *Top 5% of students in one semester*

**Service**

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**Conference Reviewer:** CVPR, ECCV, WACV, NeurIPS, ICLR, AAAI, IJCAI