

DANDAN SHAN

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EDUCATION

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| University of Michigan - Ann Arbor, MI, USA Ph.D. student, Computer Science and Engineering | <i>Aug 2020 - Present</i> |
| University of Michigan - Ann Arbor, MI, USA M.S.E., Electrical and Computer Engineering | <i>Aug 2018 - May 2020</i> |
| Soochow University, Jiangsu, China B. Eng., Software Engineering | <i>Sep 2014 - Jun 2018</i> |

PUBLICATION

Reconstructing Hands in 3D with Transformers
Georgios Pavlakos, **Dandan Shan**, Ilija Radosavovic, Angjoo Kanazawa, David Fouhey, Jitendra Malik.
Under Submission to CVPR 2024.

Towards A Richer 2D Understanding of Hands at Scale
Tianyi Cheng*, **Dandan Shan***, Ayda Sultan Hassen, Richard Higgins, David Fouhey
NeurIPS 2023.

EPIC-KITCHENS VISOR Benchmark: Video Segmentations and Object Relations
Ahmad Darkhalil*, **Dandan Shan***, Bin Zhu*, Jian Ma*, Amlan Kar, Richard Higgins, Sanja Fidler, David Fouhey, Dima Damen.
NeurIPS 2022 Datasets and Benchmarks.

COHESIV: Contrastive Object and Hand Embedding Segmentation In Video
Dandan Shan*, Richard Higgins*, David Fouhey.
NeurIPS 2021.

Understanding Human Hands in Contact at Internet Scale
Dandan Shan, Jiaqi Geng*, Michelle Shu*, David Fouhey.
CVPR 2020 (Oral).

WORK EXPERIENCE

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| Research Scientist Intern, Media Intelligence Lab, Adobe Inc. <i>Advisor: Jimei Yang, Oliver Wang</i> Worked on consistent video editing on human interaction videos using layered neural atlases. | <i>May 2022 - Nov 2023</i> |
| System Development Intern, CalmCar Vision System Co. <i>Mentor: Shiqing Cheng</i> Worked on a real-time traffic lights state recognition system which has been used in the Advanced Driver Assistance System in cooperation with SAIC Motor Co. Ltd. | <i>Aug 2017 - May 2018</i> |

TEACHING EXPERIENCE

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| AI4ALL Summer Program, University of Michigan <i>Project Instructor</i> Designed and instructed vision projects on Object Detection and Virtual Background. | <i>2020, 2021</i> |
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TALK

Towards A Richer 2D Understanding of Hands at Scale
Understanding Human Hands in Contact at Internet Scale

CVPR2023 4DHOI Workshop
Aibee Inc., Jul 2021

PROFESSIONAL SERVICE

Reviewer

Conference: CVPR, ECCV, ICCV, NeurIPS, NeurIPS Datasets and Benchmarks, ICLR
Journal: Pattern Recognition

Organizer

Hand-Object Segmentation (HOS) Challenge in EPIC-KITCHENS Challenge 2023

HONORS AND SCHOLARSHIP

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| Outstanding Reviewer Award | ECCV2022 |
| Rackham International Students Fellowship (University of Michigan) | 2021 |
| Outstanding Graduate (Soochow University) | Jun 2018 |
| Excellent Thesis (Soochow University) | Jun 2018 |
| Grand Prize Excellent Student Scholarship (Soochow University) | Oct 2017 |
| Innovation Award (Soochow University) | Oct 2017 |
| Special Award for Social Work (Soochow University) | 2015, 2016, 2017 |
| Comprehensive Performance Awards (Soochow University) | 2015, 2016, 2017 |

OUTREACH

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| Social Media Student Takeover, Michigan AI Lab, University of Michigan | Jul 2023 - Aug 2023 |
| Organizer, AI seminar, University of Michigan | Aug 2021 - May 2022 |
| Coordinator, Computer Vision Reading Group, University of Michigan | Aug 2020 - May 2021 |
| Webmaster, Ensemble of CSE Ladies, University of Michigan | Aug 2020 - Present |
| Mentor, Ensemble of CSE Ladies, University of Michigan | Sep 2019 - Dec 2019 |
| Web designer and maintainer, Vision@UMich official webpage | Sep 2019 - Present |
| Volunteer, AI Symposium at the University of Michigan | Oct 2019 |
| Web maintainer, TEDxSuzhou official webpage | Sep 2016 - Jan 2017 |
| Social Investigation on Children's Education Status in Ningxia Hui Autonomous Region | Jul 2015 |