# HAIDONG ZHU

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## EDUCATION

* Ph.D. candidate, Computer Science, University of Southern California, Aug 2019 - Dec 2023 (expected)
* B.E., Electronic Information Science and Technology, Tsinghua University, Aug 2015 - July 2019

## INTERNSHIP

**Research Intern @ Microsoft**, Redmond, WA, *May. 2023 - Aug. 2023*
**Applied Scientist Intern @ Amazon**, Bellevue, WA, *May. 2022 - Aug. 2022*
**Research Intern @ Bytedance Inc.**, Mountain View, CA, *May. 2021 - Aug. 2021*
**Visiting Researcher @ VCG, Harvard University**, Cambridge, MA, *Jun. 2018 - Sept. 2018*

## SELECTED PUBLICATIONS

For the full pulication list, please refer to my Google Scholar.

1. 3-D Representation
   - Haidong Zhu* *et al.*, **CAT-NeRF: Constancy-Aware Tx$^2$Former for Dynamic Body Modeling**, *Accepted to Conference on Computer Vision and Pattern Recognition Workshops (CVPRW), 2023.*[Paper][Code]
   - Haidong Zhu *et al.*, **Multimodality Neural Radiance Field**, *Accepted to IEEE International Conference on Robotics and Automation (ICRA), 2023.*[Paper]
   - Haidong Zhu *et al.*, **OPEN: Order-preserving Point Cloud Encoder-Decoder Network for HumanBody Shape Refinement with Dense Correspondence**, *Proceedings of the International Conference on Pattern Recognition (ICPR), pp. 521-527, 2022 (Oral).* [Paper][Supp]
   - Yueqi Duan*, Haidong Zhu*, *et al.*, **Curriculum DeepSDF**, *European Conference on Computer Vision (ECCV), pp. 51-67, 2020.* (equal contribution) [Paper][Code]

2. Biometrics
   - Haidong Zhu *et al.*, **GaitRef: Gait Recognition with Refined Skeletons** (equal contribution), *Under review.*
   - Haidong Zhu *et al.*, **Gait Recognition Using 3-D Human Body Shape Inference**, *Proceedings of the IEEE/CVF Winter Conference on Applications of Computer Vision (WACV), pp. 909-918, 2023.*[Paper][Supp]

3. Vision and Language
   - Haidong Zhu *et al.*, **Self-supervised Learning for Sentiment Analysis via Image-text Matching**, *Proceedings of the IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), pp. 1710-1714, 2022.* [Paper]
   - Haidong Zhu, *et al.*, **Utilizing Every Image Object for Semi-supervised Phrase Grounding**, *Proceedings of the IEEE/CVF Winter Conference on Applications of Computer Vision (WACV), pp. 2210-2219, 2021.* [Paper]
   - ..., Haidong Zhu, *et al.*, **GAIA at SM-KBP 2020 - A Dockerized Multi-media Multi-lingual Knowledge Extraction, Clustering, Temporal Tracking and Hypothesis Generation System**, *Text Analysis Conference (TAC), 2020.* [Paper]
   - Chuanzi He, Haidong Zhu, *et al*, **CPARR: Category-based Proposal Analysis for Referring Relationships**, *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops (CVPRW), pp. 4074-4083, 2020.* [Paper]

4. Biomedical Images Analysis
   - Haidong Zhu, *et al.*, **Pick-and-Learn: Automatic Quality Evaluation for Noisy-Labeled Image Segmentation**, *Proceedings of the International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI), LNCS 11769, pp. 576-584, 2019.* [Paper]
   - Brian Matejek, Daniel Haehn, Haidong Zhu, *et al.*, **Biologically Constrained Graphs for Global Connectomics Reconstruction**, *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), pp. 2089-2098, 2019.* [Paper][Code]

## PROFESSIONAL ACTIVITIES

Reviewer:

- *Conferences:* ICME (2020-2022), BMVC (2020-), WACV (2021-), IROS (2021), AAAI (2022-), MICCAI (2022), ICPR (2022), ECCV (2022), CVPR (2023), ICCV (2023), EMNLP (2022), IJCAI (2023).
- *Workshops:* MULA (2020-),
- *Journals:* IJCV (2021), T.MM (2022), MM (2022), TPAMI (2022-)