Ph.D. openings are available in the Center for Research in Computer Vision (CRCV) at the University of Central Florida (UCF) under the supervision of Prof. Chen Chen.

Students will be graduated with a Ph.D. degree in Computer Science. CRCV is a world-leading research center for computer vision and machine learning. UCF is ranked 8th in Computer Vision according to csrankings.org.

Prof. Chen Chen’s main research interests include computer vision, image and video processing, and machine learning. He had published ~100 papers in top-tier venues, including CVPR, ICCV, ECCV, NeurIPS, ICLR, AAAI, IJCAI, MICCAI, T-PAMI, T-IP, T-NNLS, and IJCV.

He has more than 14,000 citations with an h-index of 57 as of August, 2023 according to his Google Scholar profile. He is ranked among the top 2% of scientists in the world by a recent Stanford University study. He is an Area Chair of CVPR 2022, ECCV 2022, ACM Multimedia 2019 – 2022, ICME 2021-
The students will work on the following Research Topics:
(1) Deep learning for computer vision (object detection/recognition, action detection/recognition in videos, human pose estimation and tracking, semantic segmentation, etc.)
(2) Multi-modal learning (vision, text, speech, etc.), foundation models
(3) Generative models, AIGC
(4) Vision for drones (vision-assisted navigation, control, planning, etc.)
(5) Resource-efficient deep learning for edge computing (e.g., model compression/pruning, adaptive/dynamic neural networks, spiking neural networks, etc.)
(6) Federated learning and applications
(7) Medical image computing (in collaboration with Mayo Clinic)

Requirements:
(1) Undergraduate or MS students with degrees in Computer Science/Engineering, Electrical Engineering, Mathematics or related majors.
(2) Strong programming and/or mathematical skills. Proficient in deep learning frameworks, e.g., PyTorch
(3) Candidates with research experience in image processing, computer vision, and machine learning, are preferred.
(4) Strong motivation and passion for conducting research and solving challenging problems.
(5) Proficiency in English reading and writing (through GRE, TOEFL/IELTS scores, and publications).

Interested individuals are encouraged to contact Dr. Chen Chen (chen.chen@crcv.ucf.edu) with the following documentation:
(1) A short description of your research interest and experience
(2) A current CV
(3) Transcripts if applicable
(4) Representative publications if applicable

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