

# Dong Zhang

## Resume

### Profile

- 10 years experience in **Computer Vision** and **Machine Learning**
- Publications on top computer vision venues (**CVPR, ICCV, ECCV, etc.**)
- Ph.D. from a **Top Computer Vision Group** in the United States (UCF CRCV).
- 10 years **C/C++** experience

### Education

- 2016 **Ph.D., Computer Science**, *Univ. of Central Florida*, Orlando, USA.
- 2013 **Ph.D., Control Science and Engineering**, *Zhejiang University*, China.
- 2007 **B.E., Automation**, *Zhejiang University*, Hangzhou, China.

### Professional Experience

- 10/2017– Senior Deep Learning Software Engineer, **NVIDIA**, Santa Clara, CA.
  - Autonomous Driving
- 02/2017– Computer Vision Architect, **Synaptics Inc**, San Jose, CA.
  - 10/2017 ○ Computer Vision in Biometrics
- 05/2015– Interim Engineering Intern, **Qualcomm**, AUSTRIA RESEARCH CENTER, Vienna, Austria.
  - 08/2015 ○ Semi-dense Object Tracking (SLAM/SFM)
- 05/2014– Computer Vision Intern, **Siemens Corporation Research**, Princeton, NJ.
  - 08/2014 ○ Non-rigid Object Tracking (Multiple Object Tracking/Graph Optimization)
  - Medical Image/Video Processing
- 05/2013– Research Associate Intern, **SRI International**, Princeton, NJ.
  - 08/2013 ○ Fast video segmentation (Image/Video Segmentation)
  - Automatic YouTube video analysis (Feature Extraction, Clustering)
- 08/2011– Research Assistant/Postdoc, CENTER FOR RESEARCH IN COMPUTER VISION, UCF, Orlando, FL.
  - 02/2017 ○ City-scale 3D map building (3D Reconstruction, Structure from Motion)
  - Video Semantic Indexing (Video Classification, Action/Activity Recognition, Machine Learning)
  - Video based human detection (Object Detection/Recognition, and Tracking)
  - Video object segmentation (Image/Video Segmentation)
  - Video face verification, (Face Detection, Face Recognition)
  - "Where am I?": Geo-localization (Visual Odometry)

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## Skills

Programming C/C++, Python, Java, Matlab

DeepLearning TensorFlow, Caffe, Keras/Theano, Torch

Database SQL, MySQL, Oracle

Other OpenCV, HTML, JavaScript, CSS, DSP, Single-chip Microcontroller, PLC, Electrical Design

## Publications

- H Idrees, M Tayyab, K Athrey, **Dong Zhang**, S Al-Maadeed, N Rajpoot, "Composition loss for counting, density map estimation and localization in dense crowds", European Conference on Computer Vision (**ECCV**), Munich, Germany, Sep. 8-14, 2018.
- R LaLonde, **Dong Zhang**, M Shah, "ClusterNet: Detecting Small Objects in Large Scenes by Exploiting Spatio-Temporal Information", Computer Vision and Pattern Recognition (**CVPR**), Salt Lake City, Utah, June 18-22, 2018.
- Amir Mazaher, **Dong Zhang**, and Mubarak Shah, "Video Fill In the Blank using LR/RL LSTMs with Spatial-Temporal Attentions", International Conference on Computer Vision (**ICCV**), Venice, Italy, Oct. 22-29, 2017.
- Waqas Sultani, **Dong Zhang**, and Mubarak Shah, "Unsupervised Action Proposal Ranking through Proposal Recombination", Computer Vision and Image Understanding (**CVIU**), 2017.
- **Dong Zhang** and Mubarak Shah, "Human Pose Estimation in Videos", International Conference on Computer Vision (**ICCV**), Santiago, Chile, Dec. 13-16, 2015.
- **Dong Zhang**, Omar Javed and Mubarak Shah, "Video Object Co-Segmentation by Regulated Maximum Weight Cliques", European Conference on Computer Vision (**ECCV**), Zurich, Switzerland, Sep. 6-12, 2014.
- **Dong Zhang**, Omar Javed and Mubarak Shah, "Video Object Segmentation through Spatially Accurate and Temporally Dense Extraction of Primary Object Regions", Computer Vision and Pattern Recognition (**CVPR**), Portland, Oregon, June 23-28, 2013. (**Oral, acceptance rate 3%**)
- **Dong Zhang**, Shanhui Sun, Ziyang Wu, Bor-Jeng Chen, and Terrence Chen, "Vessel Tree Tracking in Angiographic Sequences", Journal of Medical Imaging, 2017.
- Bor-Jeng Chen, Ziyang Wu, Shanhui Sun, **Dong Zhang** and Terrence Chen, "Guidewire Tracking Using a Novel Sequential Segment Optimization Method in Interventional X-Ray Videos", International Symposium on Biomedical Imaging (**ISBI**), Prague, Czech Republic, April 13-16, 2016.

## Reviewer For Journals/Conferences

- IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**)
- International Conference on Computer Vision (**ICCV**)
- European Conference on Computer Vision (**ECCV**)
- IEEE Transactions on Pattern Analysis and Machine Intelligence (**T-PAMI**)
- ACM Computing Survey
- IEEE Transactions on Image Processing
- IEEE Signal Processing Letters
- IEEE Transactions on Circuits and Systems for Video Technology ... 15+ other journals

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