Yu-Chuan Su

http://sammy-su.github.io

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RESEARCH INTERESTS

- Computer Vision — semantic understanding, low-cost recognition, active vision
- Machine Learning — scalable learning algorithms, multimodal deep learning
- Data Mining — user intention understanding

EDUCATION

University of Texas at Austin   August 2014 - Present
Ph.D. in Computer Science

· Advisor: Prof. Kristen Grauman
· GPA (0∼4 scale): 3.88

National Taiwan University   September 2012 - June 2014
Master in Computer Science

· Thesis: Large Scale Mobile Visual Recognition
· Advisor: Prof. Winston H. Hsu
· GPA (0∼4.3 scale): 4.27

National Taiwan University   September 2006 - June 2011
B.S. in Computer Science and Physics

· GPA (0∼100 scale): 91.11

AWARDS AND FELLOWSHIPS

Google Phd Fellowship

· Google Phd Fellowship 2017

ACCV 2016 Best Application Paper Award

· Songde Ma Best Application Paper Award of The 13th Asian Conference on Computer Vision

IPPR 2015 Best Thesis Award

· Best Master Thesis Award of Chinese Image Processing and Pattern Recognition Society 2015

Calhoun Graduate Excellence Fellowship

· Doctoral fellowship from UT Austin (2014-2016)

KDD Cup 2013

· Author-Paper Identification Challenge (Track 1) – **1st place** (in 561 teams)
· Author Disambiguation Challenge (Track 2) – **1st place** (in 241 teams)

College Student Research Training Fellowship

· Fellowship for B.S. research from National Science Council

National Taiwan University

· President's Award 4 times (top 5% academic performance in semester)
· Dean's Award (top 10% academic performance at graduation)

SELECTED PUBLICATIONS

- <u>Yu-Chuan Su</u>, Kristen Grauman
  Making 360° Video Watchable in 2D: Learning Videography for Click Free Viewing
  Conference on Computer Vision and Pattern Recognition 2017 (Spotlight)

- <u>Yu-Chuan Su</u>, Dinesh Jayaraman, Kristen Grauman
  Pano2Vid: Automatic Cinematography for Watching 360° Videos
  Asian Conference on Computer Vision 2016 (Oral, accept rate 5%)

- <u>Yu-Chuan Su</u>, Kristen Grauman
  Detecting Engagement in Egocentric Video
  European Conference on Computer Vision 2016 (Oral, accept rate 1.8%)

- <u>Yu-Chuan Su</u>, Kristen Grauman
  Leaving Some Stones Unturned: Dynamic Feature Prioritization for Activity Detection in Streaming Video
  European Conference on Computer Vision 2016 (Accept rate 26.6%)

- <u>Yu-Chuan Su</u>, Tzu-Hsuan Chiu, Chun-Yen Yeh, Hsin-Fu Huang, Winston H. Hsu
  Transfer Learning for Video Recognition with Scarce Training Data for Deep Convolutional Neural Network
  arXiv:1409.4127v2

- <u>Yu-Chuan Su</u>, Tzu-Hsuan Chiu, Yin-Hsi Kuo, Chun-Yen Yeh, Winston H. Hsu
  Scalable Mobile Visual Classification by Kernel Preserving Projection over High-Dimensional Features
  IEEE Transactions on Multimedia 2014

- <u>Yu-Chuan Su</u>, Tzu-Hsuan Chiu, Yan-Ying Chen, Chun-Yen Yeh, Winston H. Hsu
  Enabling Low Bitrate Mobile Visual Recognition – A Performance versus Bandwidth Evaluation
  ACM Multimedia 2013 (Oral, accept rate 20%)

- <u>Yu-Chuan Su</u>, Tzu-Hsuan Chiu, Guan-Long Wu, Chun-Yen Yeh, Felix Wu, Winston H. Hsu
  Flickr-tag Prediction using Multi-modal Fusion and Meta Information
  ACM Multimedia 2013 (Grand Challenge)

- Chen-Wei Tsai, <u>Yu-Chuan Su</u>, Guan-De Li, Jeng-Da Chai
  Assessment of Density Functionals with Correct Asymptotic Behavior
  Physical Chemistry Chemical Physics 2013

- <u>Yu-Chuan Su</u>, Guan-Long Wu, Tzu-Hsuan Chiu, Winston H. Hsu
  Evaluating Gaussian Like Image Representation Over Local Features
  International Conference on Multimedia and Expo 2012 (Accept rate 30%)

- Guan-Long Wu, <u>Yu-Chuan Su</u>, Tzu-Hsuan Chiu, Winston H. Hsu
  Scalable Mobile Video Question-Answering System with Locally Aggregated Descriptors and Random Projection
  ACM Multimedia 2011 (Grand Challenge)

RESEARCH EXPERIENCE

With Prof. Kristen Grauman   August 2014 - Present
Graduate Research Asssistant   *Computer Science Department, UT Austin*

· Research in computer vision and machine learning
· Attention analysis in ego-centric video
· Feature triage in streaming activity detection
· Virtual camera control in 360° videos

With Prof. Winston H. Hsu   July 2012 - June 2014
Master Student   *Computer Science Department, NTU*

· Research in multimedia analysis and machine learning
· Mobile-friendly visual recognition
· Deep learning for video event detection using transfer learning

With Prof. Winston H. Hsu   July 2010 - August 2011
Undergraduate Researcher   *Computer Science Department, NTU*

· Research in multimedia analysis and retrieval
· Video question answering and event detection on mobile devices
· Investigate the properties of gaussian like image representations

With Prof. Jeng-Da Chai   August 2009 - August 2011
Undergraduate Researcher   *Physics Department, NTU*

· Research in Density Functional Theory and Time Dependent Density Functional Theory
· Develop new long-range corrected functionals using laplacian correction
· Study the properties of different long-range correction schemes
· Implement LB94 model potential on Q-Chem 4.0

PROFESSIONAL ACTIVITIES

Journal Reviewer

· Data Mining and Knowledge Discovery (DAMI)
· IEEE Transactions on Multimedia (TMM)
· IEEE Transactions on Visualization and Computer Graphics (TVCG)

Program Committee / Reviewer

· WACV 2017, UIST 2017

Invited Talk

· Vision and Learning Meet-Up: Recent Advances and Experience Sharing from Overseas Taiwanese Scholars
  Academia Sinica, January 2017
· 6th Workshop on Intelligent Cinematography and Editing
  Lyon, April 2017

WORK EXPERIENCE

Yahoo!   July 2013 - August 2013
Technical Intern   *Yahoo! Taiwan*

· Work on Yahoo! knowledge graph project with Yahoo! search team