# Kaihua Tang

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**EDUCATION**

**Nanyang Technological University**, Singapore

- Ph.D Candidate in School of Computer Science and Engineering — Jul 2018 – Now
  - Adviser: Asst Prof. Hanwang Zhang

**Shanghai Jiao Tong University**, China, **Waseda University**, Japan

- Dual M.S. Program in Computer Science — Sep 2015 – Mar 2018
  - Adviser: Prof. Lizhuang Ma & Prof. Sei-ichiro Kamata

**Shanghai Jiao Tong University**, Shanghai, China

- B.S. in Computer Science — Sep 2011 – Jul 2015
  - Adviser: Prof. Kai Yu
- Second Major in Chinese Painting — Sep 2012 – Jul 2014
  - Adviser: Qi Wang

**PUBLICATIONS**

**CONFERENCES**

- K. Tang, et al., "Unbiased Scene Graph Generation from Biased Training," in *CVPR*, Jun 2020.
- X.Hu, Y.Jiang, K. Tang, et al., "Learning to Segment the Tail," in *CVPR*, Jun 2020.
- K. Tang, et al., "Learning to Compose Dynamic Tree Structures for Visual Contexts," **Oral & Finallists (0.87% = 45/5160)**, in *CVPR*, Jun 2019.
- X.Yang, K. Tang, et al., "Auto-Encoding Scene Graphs for Image Captioning," **Oral**, in *CVPR*, Jun 2019.
- K. Tang, et al., "Eigen-Aging Reference Coding for Cross-Age Face Verification and Retrieval," in *ACCV*, Nov 2016.

**EXPERIENCE**

**Tencent, AI Lab, Research Intern**, ShenZhen, China

- Project: Scene Graph Generation — Mar 2018- Jun 2018

**Mihoyo, Mobile Game Development Intern**, Shanghai, China

- Project: Mobile Game Development Using Unity 3D. — Apr 2017- Dec 2017

**Kamata Lab and Digital Image Lab**, Waseda (Japan) and SJTU (China)

- Project: Age Estimation and Age-Invariant Face Recognition — Feb 2016 – Mar 2018

**TOSHIBA Research & Development Intern**, TOSHIBA, Tokyo, Japan

- Project: Image Inpainting — Aug 2015- Sep 2015

**AWARDS & SCHOLARSHIPS**

- PREMIA Best Student Paper, Silver Award (2nd Place), PREMIA — 2019
- Honorable Judge Award, The 5th Cloud Programming World Cup, FORUM8 Tokyo — 2017
- Waseda Partial Tuition-Waiver Scholarship for Privately Financed International Students — 2015
  GPA rank Top 10 out of 300.
- IPS special scholarship for international students, Waseda University — 2014
- Monbukagakusho Honors Scholarship for Privately Financed International Students — 2014
- Academic Excellence ScholarShip of SJTU, third class — 2013 – 2014
- Emerging Talent Award, Cloud Programming World Cup (FORUM8), Tokyo — 2013

**PROJECTS**

**Scene-Graph-Benchmark.pytorch**

- Description: an open-source scene graph generation (SGG) CODEBASE built on top of the maskrcnn-benchmark, which integrates all the exsiting metrics (R@K, mR@K, ngR@K, zR@K, etc.) and several well-known base models like Motifs, IMP, VCTree, Transformer, Causal-TDE to benchmark the scene graph generation.
- Github Link: https://github.com/KaihuaTang/Scene-Graph-Benchmark.pytorch — 2020

**VQA2.0-Recent-Approachs-2018.pytorch**

- Description: an open-source visual question answering (VQA) project built on top of the bottom-up-attention-vqa. It integrates several popular VQA papers published in 2018, which includes: bottom-up top-down, bilinear attention network, learning to count, learning conditioned graph structures, intra- and inter-modality attention.
- Github Link: https://github.com/KaihuaTang/VQA2.0-Recent-Approachs-2018.pytorch    2019

**SKILLS**

**Recently Used:** Python, Pytorch; **Have Experience Before:** MATLAB, C#, Java, C++,

**LANGUAGES**

- **Chinese**: Native language, **English**: Fluent (TOEFL 103, GRE 328), **Japanese**: Basic (N2).

**VOLUNTEER ACTIVITIES**

- YAPM Summer Volunteer Program, TECC Organization                    Jul 2014 – Aug 2014
- Volunteer of Spring Festival Railway Transport                                        Feb 2013
- Volunteer of TORAY Cup Shanghai International Marathon                         Dec 2011

**INTERESTS**

Outdoor Activities (Hiking, Camping, Mountain Climbing, Roller Skating, etc)

[*CV compiled on 2020-03-02*]