

# Songyang Zhang

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## Education

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### University of Rochester

*Ph.D. Student in Computer Science, Advisor: Jiebo Luo*

Rochester, NY

*Aug. 2018 – Present*

### Zhejiang University

*M.S. in Computer Science, Advisor: Jun Xiao*

Hangzhou, China

*Sep. 2015 – Mar. 2018*

### Southeast University

*B.E. in Computer Science*

Nanjing, China

*Aug. 2011 – Jun. 2015*

## Publications

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Zhengyuan Yang, **Songyang Zhang**, Liwei Wang, Jiebo Luo, “SAT: 2D Semantics Assisted Training for 3D Visual Grounding”, *ICCV 2021 (Oral)*

Jiahui Li, Kun Kuang, Lin Li, Long Chen, **Songyang Zhang**, Jian Shao, Jun Xiao, “Instance-wise or Class-wise? A Tale of Neighbor Shapley for Concept-based Explanation”, *ACMMM 2021*

**Songyang Zhang**, Linfeng Song, Lifeng Jin, Dong Yu, Jiebo Luo, “Video-aided Unsupervised Grammar Induction”, *NAACL 2021 [Best Long Paper]*

**Songyang Zhang**, Houwen Peng, Jianlong Fu, Yijuan Lu, Jiebo Luo, “Multi-Scale 2D Temporal Adjacency Networks for Moment Localization with Natural Language”, *TPAMI 2021*

Shaoning Xiao, Long Chen, **Songyang Zhang**, Wei Ji, Jian Shao, Lu Ye, Jun Xiao, “Boundary Proposal Network for Two-Stage Natural Language Video Localization”, *AAAI 2021*

Li Sun, Haoqi Zhang, **Songyang Zhang**, Jiebo Luo, “Content-based Analysis of the Cultural Differences between TikTok and Douyin”, *IEEE Big Data 2020*

Jie An, Tianlang Chen, **Songyang Zhang**, Jiebo Luo, “Global Image Sentiment Transfer”, *ICPR 2020*

**Songyang Zhang**, Tolga Aktas, Jiebo Luo, “Mi YouTube es Su YouTube? Analyzing the Cultures using YouTube Thumbnails of Popular Videos”, *In Review (IEEE Big Data 2021)*

**Songyang Zhang**, Houwen Peng, Le Yang, Jianlong Fu, Jiebo Luo, “Learning 2D Temporal Adjacent Networks for Temporal Action Localization”, HACS Temporal Action Localization Challenge at *ICCV 2019 [Champion]*

**Songyang Zhang**, Houwen Peng, Jianlong Fu, Jiebo Luo, “Learning 2D Temporal Adjacent Networks for Moment Localization with Natural Language”, *AAAI 2020*

**Songyang Zhang**, Jinsong Su, Jiebo Luo, “Exploiting Temporal Relationships in Video Moment Localization with Natural Language”, *ACM Multimedia 2019*

Jiageng Feng, **Songyang Zhang**, Jun Xiao, “Explorations of skeleton features for LSTM-based action recognition”, *Multimedia Tools and Applications 2017*

**Songyang Zhang**, Jun Xiao, Xiaoming Liu, Yang Yi, Yueting Zhuang, “Fusing Geometric Features for Skeleton-Based Action Recognition using Multilayer LSTM Networks”, *IEEE Transactions on Multimedia 2017*

**Songyang Zhang**, Xiaoming Liu, Jun Xiao, “On Geometric Features for Skeleton-Based Action Recognition Using Multilayer LSTM Networks”, *WACV 2017*

## Work Experience

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### Tencent AI Lab

*Research Intern, Mentor: Linfeng Song, Lifeng Jin, Kun Xu*

Bellevue, WA

*Sep 2021 - Dec 2021*

- Unsupervised Grammar Induction

### Microsoft

*Research Intern, Mentor: Jiang Wang, Quanzeng You*

Redmond, WA

*May 2021 - Aug 2021*

- Moment Localization with Natural Language

## **Tencent AI Lab**

*Research Intern, Mentor: Linfeng Song, Lifeng Jin, Kun Xu*

- Unsupervised Grammar Induction
- One paper (NAACL 2021) resulted from this project.
- Best Long Paper Award in NAACL 2021 (1/1797)

Bellevue, WA

*May 2020 - Aug 2020*

## **Microsoft**

*Research Intern, Mentor: Houwen Peng, Jianlong Fu*

- Moment Localization with Natural Language
- One conference paper (AAAI 2020), one technical report (ICCV 2019) and one journal paper (under review) resulted from this project.
- Rank 1 in HACS Temporal Action Localization Challenge at ICCV 2019

Beijing, China

*May 2019 - Aug 2019*

## **Tencent AI Lab**

*Research Intern, Mentor: Lin Ma, Linchao Bao*

- Temporal Action Localization

Shenzhen, China

*Mar 2018 - Aug 2018*

## **Honors & Awards**

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Best Long Paper Award at NAACL 2021 (1/1797)	Jun 2021
Winner, HACS Temporal Action Localization Challenge at ICCV 2019	Oct 2019
Student Travel Award at ACM Multimedia 2019	Oct 2019
Large Scale 3D Human Activity Analysis Challenge in Depth Videos	
<i>Rank 4 in Recognition Track, 6 in Detection Track, granted by ICME 2017 Workshop</i>	Apr 2017
<i>Rank 6, granted by ACCV 2016 Workshop</i>	Oct 2016
Robocup 3D Simulation	
<i>Winner, RoboCup China Open 2014 Competition</i>	Oct 2014
<i>Rank 5-8, Robocup 2014 Competition, Brazil</i>	Jul 2014

## **Services**

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### **Reviewer:**

- Conference: ACM Multimedia 2021, ICIG 2021
- Journal: TPAMI, TMM, TIP, TCSVT, Neural Computing