

# Haoxuan You

## CONTACT INFORMATION

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PHONE: +86 15029052737  
EMAIL: haoxuanyou@gmail.com  
ADDRESS: School of Software, Tsinghua University, Hai Dian, Beijing, China  
HOMEPAGE: <http://www.gaoyue.org/tsinghua/people/HaoxuanYou.html>

## EDUCATION

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Sep. 2014 - Jun. 2018    **Xidian University (XDU)**, Xi'an, Shaanxi, China

- Bachelor of Engineering in Electronic Information Engineering
- Overall GPA: 3.77
- GRE: 324 (V:157 Q:167) + 3.5
- TOEFL: 101 (R27 L27 S23 W24)

## PUBLICATION

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- [1] **Haoxuan You**, Yifan Feng, Rongrong Ji, Yue Gao. "PVNet: A Joint Convolutional Network of Point Cloud and Multi-View for 3D Shape Recognition". **Accepted** as **Oral** by *ACM International Conference on Multimedia*, 2018.
- [2] **Haoxuan You**, Yifan Feng, Xibin Zhao, Changqing Zou, Rongrong Ji, Yue Gao. "PVR-Net: Point-View Relation Neural Network for 3D Shape Recognition". **Submitted** to *AAAI2019*.(Under review)
- [3] Yifan Feng\*, **Haoxuan You\***, Rongrong Ji, Yue Gao. "Hypergraph Neural Networks". **Submitted** to *AAAI2019*.(\*Equal Contribution, under review)
- [4] YuTong Feng, Yifan Feng, **Haoxuan You**, Xibin Zhao, Yue Gao. "MeshNet: Mesh Neural Network for 3D Shape Representation". **Submitted** to *AAAI2019*.(Under review)

## RESEARCH EXPERIENCE

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**School of Software, Tsinghua University.**

*Research Assistant*

*Feb. 2018 - Present*

- Advisor: [Prof. Yue Gao](#)
- Deep Learning on Multi-view/Point Cloud in 3D Shape Representation.
  - Proposed PVNet, the first framework to jointly employ multi-view data and point cloud data for 3D shape recognition by a novel attention fusion mechanism.
  - Designed a framework PVRNet to explore the relation between point cloud and multi-view data, and further fuse them by an effective relation-based fusion module.
  - Introduced the first network to learn 3D shape representation from mesh data by exploiting the structural feature (corner feature and normal feature) and spatial feature (center point feature) of mesh.
  - Achieved significant performance on ModelNet40 in the task of classification and retrieval.
  - Published a paper(oral) in ACM MM2018 and submitted two papers to AAAI2019.

- Graph-based Neural Networks.
  - Generalized the convolution operation to the hypergraph learning process and proposed the first neural networks on hypergraph-Hypergraph Neural Networks (HGNN).
  - Provided solid proof and validated HGNN in the dataset of citation and visual recognition with considerable improvements.
  - Submitted a paper to AAAI2019.

## Video & Image Processing System Laboratory, Xidian University.

*Research Intern*

*Jan. 2017 - Feb. 2017*

- Advisor: [Prof. Xinbo Gao](#)
- Generalization Ability of Deep Generative Models.
  - Designed a training strategy with relaxation regularizer to alleviate the instability and missing-mode problems in the optimization of GANs.
- Decoding of Visual Stimuli.
  - Introduced visual representation to guide EEG data classification and applied GAN to reconstruct visual stimuli from EEG data.

## AWARDS & HONORS

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2015 First-prize scholarship in XDU (Top 5%)  
 2016 Second-prize scholarship in XDU (Top 10%)  
 2017 Second-prize scholarship in XDU (Top 10%)  
 2016 Outstanding Student Cadres in XDU

## COMPUTER PROGRAMMING

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Computer Programming: C, C++, MATLAB, Python and others  
 Tools: Tensorflow, Pytorch, Keras.