

# Juyong Jiang

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## Education

- **Hohai University** **Nanjing, China**  
*B.S in Computer Science and Technology* *08/2016--07/2020*  
GPA 88.76/100, 4.67/5.0, ranking top 8/107 in major

## Personal Profile

I received my Bachelor's degree in Computer Science and Technology, Hohai University with honors of the **Excellent Bachelor Thesis Award** and recommended as **the Outstanding Bachelor Thesis in Jiangsu Province** in July. 2020. I used to be a member of Hohai Mathematical Modeling Lab and then joined Hohai AI Development Team, under the supervision of Prof. [Jianjun Ni](#). My research interest is Computer Vision, with a focus on **Object Detection**, **Instance Segmentation** and **Deep Learning**, supervised by Prof. [Jing Liu](#). So far, I have *read more than 100 CVPR/ ICCV/ ECCV/ NIPS/ AAI / ACL / EMNLP / NAACL papers* so that I can understand and re-implement the new papers.

## Publications

- **Juyong Jiang**, Jie Zhang and Kai Zhang. "Cascaded Semantic and Positional Self-Attention Network for Document Classification." In Proceedings of the Conference on Empirical Methods in Natural Language Processing (*EMNLP*), 2020. (Submit)
- Junfeng Chen, **Juyong Jiang**, et al. "A fault diagnosis system for rail transit platform doors based on deep learning." Chinese Patent. 201910613949.1 (Pending).
- Jianjun Ni, **Juyong Jiang**, et al. "Bank card number positioning and recognition end-to-end method based on CNN and RNN." Chinese Patent. 201910933476.3 (Pending).
- Junfeng Chen, **Juyong Jiang**, et al. "Multi-regional precipitation prediction model construction method based on multi-graph convolution and memory network." Chinese Patent. 201911362437.9 (Pending).

## Projects

- **Video & Image Instance Segmentation Based on Deep Learning. (03/2020--Present)**
  - Predict both the location and the semantic mask of each instance in an image & video.
  - Add the module of ASPP, CoordConv, DCN, Global Pooling, Self-Attention, etc. on base-line framework to solve some problems and improve performance.
  - IVA, NLPR, CASIA & HuaWei.
- **Spatiotemporal Data Mining in Smart Cities Based on Deep Learning. (07/2019--08/2019)**
  - Encode the non-Euclidean pair-wise correlations among regions into multiple graphs

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- and then explicitly model these correlations using multi-graph convolution.
  - Augments recurrent neural network with a contextual-aware gating mechanism to re-weights different historical observations.
  - College of Computer Science and Technology, Zhejiang University.
  - **Bank Card Recognition System Based on Deep Learning. (03/2019--07/2019)**
    - Data augmentation by using random cropping, rotation, various transformation, blur and noise.
    - Using CTPN & CRNN model to locate and recognize bank card number, respectively.
    - Developing a web page and an android app to display and use.
    - College of Internet of Things Engineering, Hohai University.

## Experience

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|---|-------------------------|
| <ul style="list-style-type: none"> <li>• <b>Image &amp; Video Analysis Group (IVA), National Laboratory of Pattern Recognition (NLPR), Institute of Automation, Chinese Academic of Sciences (CASIA)</b></li> </ul> | <b>Beijing, China</b>   |
| <i>Research Intern</i>  | <i>10/2019--Present</i> |
| <ul style="list-style-type: none"> <li>- Worked on <b>instance segmentation</b> in images &amp; videos with Dr. Xinjian He, supervised by Prof. <a href="#">Jing Liu</a>.</li> </ul>                                |                         |
| <ul style="list-style-type: none"> <li>• <b>Department of Computer and Information Sciences, Temple University</b></li> </ul>   | <b>Philadelphia, US</b> |
| <i>Research Intern</i>  | <i>08/2019--02/2020</i> |
| <ul style="list-style-type: none"> <li>- Worked on <b>natural language processing</b>, supervised by Prof. <a href="#">Kai Zhang</a>.</li> </ul>  |                         |
| <ul style="list-style-type: none"> <li>• <b>Pervasive Computing Lab (PCLab), College of Computer Science and Technology Zhejiang University</b></li> </ul>  | <b>Hangzhou, China</b>  |
| <i>Research Intern</i>  | <i>07/2019--08/2019</i> |
| <ul style="list-style-type: none"> <li>- Worked on <b>spatiotemporal data mining</b> in smart cities based on deep learning, supervised by Prof. <a href="#">Ling Chen</a>.</li> </ul>                              |                         |
| <ul style="list-style-type: none"> <li>• <b>AI Development Team, College of Internet of Things Engineering, Hohai University</b></li> </ul>   | <b>Nanjing, China</b>   |
| <i>Research Assistant</i>   | <i>08/2018--07/2020</i> |
| <ul style="list-style-type: none"> <li>- Worked on <b>application development</b> based on deep learning, supervised by Prof. <a href="#">Jianjun Ni</a>.</li> </ul>  |                         |

## Awards and Honors

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- Bachelor Thesis is recommended as **Outstanding Bachelor Thesis in Jiangsu Province (only 2 papers in Department of Information, Hohai University)**, 2020
  - **Excellent Bachelor Thesis Award** in Hohai University (5%), 2020.
  - **Outstanding Student Honor** in Hohai University, 2020.
  - Outstanding Student Honor in Hohai University, 2019.
  - Excellent Grades in Trash Classification Challenge Cup of Huawei Cloud Artificial Intelligence Contest, 2019.
  - Top 10 Outstanding students, College of Internet of Things Engineering, Hohai

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- University, 2018.
- Advanced Individual of Students at Social Practices in Summer Vacation. (Serve as Electronic Referee in The 19th Annual Games in Jiangsu Province), 2018.
  - Research and Innovation Excellent Scholarship in Hohai University, 2020.
  - Spirtual Excellent Scholarship in Hohai University, 2020.
  - Academic Excellent Scholarship in Hohai University, 2020.
  - Spirtual Excellent Scholarship in Hohai University, 2019.
  - Academic Excellent Scholarship in Hohai University, 2019.
  - **National Encouragement Scholarship**, 2018.
  - Academic Excellent Scholarship in Hohai University, 2018.
  - Academic Excellent Scholarship in Hohai University, 2017.

## Mathematical Ability

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- 2nd Prize for Certificate Authority Cup Mathematical Modeling Online Challenge (Second Stage), 2020.
- 2nd Prize for Certificate Authority Cup Mathematical Modeling Online Challenge (First Stage), 2020.
- Honorable Mention for Mathematical Contest in Modeling (MCM), 2018.
- Honorable Mention for Certificate Authority Cup International Mathematical Contest in Modeling (CAMCM), 2017.
- Excellent academic grades in all mathematic curriculum. (Advanced Mathematics-A, Linear Algebra-A, Probability and Statistics-A, Mathematical Modeling-A, Numerical Analysis and Computing-A and Discrete Mathematics-A )

## Programming Skills

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<b>Language</b>	C / C++ , Matlab, Java, Python
<b>Web</b>	HTML / CSS, JavaScript, JSP, PHP
<b>OS</b>	Linux
<b>Framework</b>	Tensorflow, Pytorch