

# JINGYI XU

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## RESEARCH INTERESTS

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Computer Vision, Deep Learning

## EDUCATION

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Nankai University, China

B.S., Computer Science

July 2015 - Present

Overall GPA : 90.3/100

## PUBLICATION

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Kai Zhao\*, Jingyi Xu\*, Mingming Cheng. **RegularFace: Deep Face Recognition via Exclusive Regularization**. CVPR 2019, submitted.

## EXPERIENCE

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*Research Intern* at Panasonic R&D Center, Singapore

September 2018 - Present

- Aim to improve face recognition model's performance on frontal-profile face image pairs.
- Propose a neural network of three fully connected layers which is capable of modeling the transportation between frontal-profile faces in high-level feature space.
- The baseline performance with the method on the Celebrities in Frontal-Profile (CFP) dataset has improved by 0.8 percent.

*Research Assistant* at University of Notre Dame, USA

July 2018 - September 2018

- Construct a graphic model of R packages based on their dependency relationship.
- Evaluate the popularity of the packages according to the frequency imported by other packages.
- Build a web-app that can generate an interactive graph to illustrate the inter-connections between packages.

## PROJECTS

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**Face recognition via exclusive regularization**

April 2018 - July 2018

- Propose a new regularization term to increase inter-class separability for face verification.
- The method distances identities by enlarging the cosine distance between an identity and its nearest neighbour in an embedding space.
- It is easy to implement and outperforms prior methods on several open benchmarks.

**Visual emotion recognition based on face recognition**

February 2018 - April 2018

- Aim to automatically predict positive and negative emotions from images.
- Utilize CNN features from the facial regions as a supplement for global features to train an SVM classifier.
- The accuracy improves by 1.6 percent compared with the baseline on Flickr and Instagram dataset.

**Zero-shot learning on visual emotion recognition**

October 2017 - December 2017

- Aim to recognize human emotions, on images where these emotions are never seen in training stage.
- Use mid-level feature, Adjective-Noun Pairs (ANP) to construct the attribute space and obtain the final class score by a pre-defined fixed mapping from attribute space to class space .
- Achieve an accuracy of over sixty percent on unseen classes.

## TECHNOLOGY SKILLS

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**Programming Languages**  
**Tools**

Python, C/C++, Java, MATLAB, L<sup>A</sup>T<sub>E</sub>X  
Pytorch, Caffe

## AWARDS

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First Prize of Scholarship, Nankai University

2016, 2018

Second Prize of Scholarship, Nankai University

2017

First Prize, China Undergraduate Mathematical Contest in Modeling

2017

First Prize, China College Students Mathematics Competition

2016