

# XIN WANG

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## EDUCATION

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**Donghua University, Shanghai, P.R.China** *Sep. 2015 - Pres.*

Ph.D in Digital Textile Engineering

Related courses: Numerical analysis, Computer graphics, Computer vision

Self-educated: CS61A, CS61B, CS231n, CS20SI, Machine Learning, Python

**University of Manchester, Manchester, United Kingdom** *Dec. 2019 - Aug. 2020*

Visiting student in Department of Materials

Related courses: Fashion recommendation system research

**Lanzhou University of Technology, Lanzhou, Gansu, P.R.China** *Sep. 2011 - Jul. 2015*

Bachelor of Textile Engineering.

Related courses: Advanced mathematics, Linear algebra, Probability theory and statistics

## RESEARCH

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**Outfit Compatibility Prediction and Diagnosis with Multi-Layered Comparison Network** *Aug. 2018 - Jun. 2019*

- [Code] [Demo] - ACM Multimedia 2019, First Author

- Propose to diagnose the compatibility of the outfit, which is implemented by using the gradient values to approximate the importance of input similarities.
- Propose to learn outfit compatibility from all pairwise similarities.
- Leverage the feature hierarchy of CNN to provide both low-level and high-level features for prediction and diagnosis.

**Inpainting-based Virtual Try-On Network for Selective Garment Transfer** *Dec. 2018 - Sep. 2019*

- [Code] - IEEE Access

- Propose an Inpainting-based Virtual Try-On Network (I-VTON) which allows the user to try on arbitrary clothes from the model image in a selective manner.
- Introduce a skin loss to maintain the skin color of users.

**Fabric Identification using Convolutional Neural Network** *Oct. 2017 - Jul. 2018*

- [Code] - Artificial Intelligence on Fashion and Textile Conference (AIFT) 2018, First Author

- Explore to retrieve fabric texture with deep extracted features, which is implemented with a CNN with softmax cross entropy and center loss.

## INTERSHIP

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**JD AI Research, Beijing, P.R.China** *Aug. 2018 - Mar. 2019*

*Computer Vision and Multimedia Lab, R&D Intern*

- Built a multi-task network for fashion attribute classification, achieved state-of-the-art performance on DeepFashion dataset.
- Implemented metric learning and sequence models for fashion outfit compatibility prediction, proposed multi-layered comparison network for superior prediction performance and diagnosis ability.

## SELECTED AWARDS

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Awarded The First Prize Scholarship for two years during my undergraduate period.

Won the 4th place in 2018 JD fashion style recognition challenge.

Awarded JD AI Star Intern in 2019.

Awarded Student Travel Grant in ACM Multimedia 2019.

## TECHNICAL STRENGTHS

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<b>Computer Language</b>	Advanced: Python; Basic: C/C++, Bash, Matlab, SQL
<b>Deep Learning Framework</b>	TensorFlow, PyTorch
<b>Tools</b>	Git, Vim, L <sup>A</sup> T <sub>E</sub> X, Scrapy, Scikit-learn, Sed, Awk