XIAOFU JIN

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Education

- **Rochester Institute of Technology** — Rochester, NY, USA
  Ph.D. student of Computational and Information Science — *Aug. 2020 – May. 2021*
- **Beijing University of Posts and Telecommunications** — Beijing, China
  Master of Computer Science — *Sept. 2017 – July. 2020*
- **Beijing University of Posts and Telecommunications** — Beijing, China
  Bachelor of Artificial Intelligence Science and Technology — *Sept. 2013 – June. 2017*

Experience

- **Baidu Financial** — Beijing, China
  Machine Learning Algorithm Engineer — *July 2018 - July 2019*
  - **Improve Models**: Improved general models based on xgboost; focused on problems of sparse features, especially in the high-dimensional sparse data, modified models based on FM(Factorization Machines), FFM(Field-aware Factorization Machine), DFM(DNN+FM) and the cost was reduced by 17%.
  - **Feature Design, Extraction and Workflow Construction**: Designed and extracted specific features from billions of data. Built a pipeline for all processes including extracting features, training, scoring, evaluating, testing and choosing the best model routinely.
  - **Data Analysis and Strategy Adjustment**: Analysed all related factors which may influence profit using statistic machine learning methods like clustering. Adjusted strategies to improve profit.
- **DeepIR Inc** — Beijing, China
  Deep Learning Reseacher — *July 2017 - July 2018*
  - **Face Detection**: Focused on detecting face in specific scenes, modified Faster-RCNN with PVA-Net and used OHEM to offset the sample imbalance.
  - **Face Attributes Recognition**: Modified a small network pretrained with UMD dataset and fine-tuned with combined attributes dataset; added a branch which can filter over 99% part faces.
  - **Data Processing and Dev Environment**: Designed label annotations' standard and cooperated with the label team to make efficient dataset from raw data. Built standard docker environment that shared by all researchers.

Paper and Thesis

- **Xiaofu Jin**, Emily Kuang, and Mingming Fan. 2021. "Too old to bank digitally? ": A Survey of Banking Practices and Challenges Among Older Adults in China. In Designing Interactive Systems Conference 2021 (DIS '21). Association for Computing Machinery, New York, NY, USA, 802–814. DOI:https://doi.org/10.1145/3461778.3462127. (Acceptance Rate: 25%; **CORE Ranking: A)**
  - **Main Work**: Conducted an online survey with 155 older adults in China to explore their banking practices and challenges..
- Peng Lu, Hao Zhang, Xujun Peng, and **Xiaofu Jin**. 2020. "Learning the Relation between Interested Objects and Aesthetic Region for Image Cropping," in IEEE Transactions on Multimedia, doi: 10.1109/TMM.2020.3029882.. github:https://github.com/CVBase-Bupt/EndtoEndCroppingSystem.
  - **Main Work**: Proposed a deep learning based framework to learn the objects composition from photos with high aesthetic qualities. Achieved the state of the art in all established dataset in both accuracy and efficiency.
- **Master Thesis**: Research and Application of Image Classification Technology in Agriculture
  - **Main Work**: Focus on Fine-grained Classification instead of traditional classification methods to justify specific illness in Agriculture. Modified model with focal loss to accelerate the convergence and increase the AP.
- **Bachelor Thesis**: Design and Implementation of Image Style Extraction Algorithm
  - **Main Work**: Focused on image style transferring and deep learning investigation, especially in the field of Computer Vision.

Honors and Awards

- **Competition**: AI competition of Huawei Cup in nation Second Prize, 2016
  - **Main Work**: Built a human-computer interaction wearable device based on HMM theory.
- **Scholorship**: Great Student Scholorship, 2016

Programming Skills

Languages: Python, C, C++, SQL, Matlab

Tools: Pytorch, Caffe, Keras, Tensorflow, Docker