

## Yushi LAN

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### EDUCATION

#### 2016-Present

##### Beijing University of Posts and Communications

- Bachelor in Software Engineering; Major GPA: 3.85/4.0 (top 5% among all students school of Software Engineering)
- Received independent admission offer to enter BUPT (top 1% among all candidates)
- Awards: Academic Excellence Awards (top 7%) for two consecutive years (2017&2018), 2018 Internet Plus Contest Beijing Area 2<sup>nd</sup> place (top 1 among all teams in the department, top 10% of 4055 teams), Elite Award of *Ansheng.WANG Foundation* (top 10%)
- 6 years of programming and engineering experience: solid expertise in Python(>50k lines), C++, Java and various algorithms and data structure; experienced in R, SPSS, MATLAB, Hadoop; Go, JavaScript, and HTML. I once implemented a Neutral Network Framework using C# which can define and train nn in PyTorch way([https://github.com/NIRVANALAN/CSharp\\_NN\\_framework](https://github.com/NIRVANALAN/CSharp_NN_framework))
- Core modules: Linear Algebra, Discrete mathematics, Data Structure, Data Mining, Distributed Computing, Advanced Operating System, Machine Learning, Database, Fundamentals of Compiling, Electronic Commerce, Algorithms Analysis and Design, Computer Organization and Architectures

#### 03/2018-Present YePeiDa Innovation College, BUPT

- Elite Selection and Development program (top 60 students among 3600 undergraduates year-round)
- Specialize in Pattern Recognition, Invasion Detection, Computer Vision and Data Mining research in Industry 4.0 field
- Professionally trained and expertise in PyTorch, Raspberry Pi, Docker and Distributed Computing; experienced in Keras, Tensorflow and Kubernetes

#### 08/2018

##### Wolfson College, Cambridge

- BUPT-Cambridge Study Program(top 36 students among 3600 undergraduates), fully funded by double-class construction funds of Chinese Ministry of Education, supervised by Dr.Jinhooi CHAN
- Core modules: Critical Thinking, Commercial Business Plan Introduction, Machine Learning, Virtual Reality, Entrepreneurship, Innovation Ability Development
- First Class graduation.

### RESEARCH EXPERIENCE

#### 10/2018-Present RCM classification feature research based on pathological image | Research Assistant

Adviser: **Hairong LV**, Assistant Professor, Department of Bioinformatics, National Laboratory of Information, Tsinghua University

- Analyzed large quantities of slides of RCM (Restrictive Cardiomyopathy) pathological images using computer vision techniques, extracting features and making correlation analysis
- Worked with partners cooperatively to solve problems with innovative algorithms and adjusted super parameters to make the model perform well
- Main coder in the team and responsible for project maintenance, parameters adjustment, adding new functions, testing and server adaption. Save necessary formatted data for research purpose
- Contributed to paper to be published to top publications a co-author in cardiomyopathy field

#### 9/2017-Present Person Re-identification end-to-end feature extraction system development

Advisor: **Guoshi WU**, Full Professor, School of Software Engineering, Director of enterprise informatization and research office, Beijing University of Posts and Telecommunications

- Designed and adjusted convolution neutral network structure based on ResNet-50 and fine-tune existing models on new datasets for the best performance on person identification and searching
- Model evaluation and adjustments
- Main coder as developing webpage and designed database for image saving and index
- Analyzed data of person tracks into anomaly detection and correlation analysis

### SKILLS AND OTHERS

**Computer Skills:** Solid expertise in Python, SQL, R, C++, C#, SQL, JavaScript, XML, Scala, Java. Up on scientific computing frameworks like PyTorch, Numpy, SciPy, CV2, Google Analytics and Hadoop

**Language:** Chinese (Native), English (fluent)

**Interests:** Baseball, European history and Photography

### HONORS AND AWARDS

Academic Excellence Scholarship (8 among 150)	2017 and 2018
MCM/ICM Honorable Award	2018
Internet Plus Contest Beijing Area 2 <sup>nd</sup> place	2018
BUPT YePeiDa Elite Selection and Development membership	2018
<i>Ansheng.WANG Foundation</i> Elite Scholarship	2017