Enyi Jiang (Olivia)
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Education

- **University of Illinois at Urbana-Champaign** 3.93/4.00
  Bachelor of Science in Computer Engineering *Sept. 2016 - May 2020*
- **Zhejiang University** 3.99/4.00
  Bachelor of Engineering in Electronics and Computer Engineering *Sept. 2016 - May 2020*

  * Dual-degree Program from ZJU-UIUC Institute, scheduled to complete degrees from both universities

Experience

- **Bio Text Mining(demo link)** Urbana-Champaign, Illinois
  Data Mining Group at Computer Science Department, UIUC *May 2019 - Present*
  - Searched into Unified Medical Language System (UMLS) database to clean up 17 biologically semantic types of dictionaries for name entity recognition (NER) and completed back-end I/O code for AutoBioNER demo
  - Improved the gaussian mixture model dictionary expansion result by designing a knowledge-based raw-text selection method
  - Refined the annotated abstracts NER result after doing comparison with the part of speech tagging result
- **Deep Learning on RANS Turbulence Model(poster)** Urbana-Champaign, Illinois
  SPIN Research Internship, by Prof. Kindratenko and Dr. Shirui Luo *May 2019 - July 2019*
  - Used Tune package to tune the parameters of a Deep Neural Network (DNN) regression structure
  - Designed weighted-loss function using kernel density estimation to deal with unbalanced data distribution
  - Adopted the Kullback-Leibler importance estimation procedure to obtain the resampling weights for each data sample, in order to reduce the training/testing dataset dissimilarity

Projects

- **Literature Review Summarizer Model Based on BERT(project report)** Haining, Zhejiang
  Independent Study *Sept. 2019 - Present*
  - Scraped paper contents from arXiv for a specific period and academic field
  - Applied the abstractive and extractive summarizing models to the paper data and generated the summaries
  - Evaluated the quality of the summaries with the Recall-Oriented Understudy for Gisting Evaluation (ROUGE) metric
- **Using DNNs on Blade Design Dataset(project report)** Urbana-Champaign, Illinois
  Independent Study *Jan. 2019 - May 2019*
  - Applied different DNN structures for the dataset training and testing
  - Handled data prepossessing and over-fitting problem using standardization and the Box-Cox transformation
  - Managed to train a DNN with small error and good fitness using AlexNet
- **Magic ECE385 in FPGA(project report)** Urbana-Champaign, Illinois
  Digital Systems Laboratory Course *Apr. 2019 - May 2019*
  - Wrote the control (finite state machine) and graphic (sprites) parts of the game
  - Accomplished a simplified version of a famous game, Tower of the Sorcerer
- **Build a Linux System** Urbana-Champaign, Illinois
  Computer Systems Engineering Course *Oct. 2018 - Dec. 2018*
  - Built a Linux system from scratch with keyboard, real-time clock, interrupt handler, scheduling and system calls
  - Wrote extra features to the system such as dynamic memory allocation

Publications

- Xuan Wang, Yingjun Guan, Weili Liu, Aabhas Chauhan, **Enyi Jiang**, Qi Li, David Liem, Dibakar Sigdel, John Caufield, Peipei Ping and Jiawei Han, *EVIDENCEMINER: Textual Evidence Discovery for Life Sciences*, in Proc. 2020 Annual Conf. of the Association for Computational Linguistics (ACL20) (System demo), Seattle, WA, July 2020

- Shirui Luo, Jiahuan Cui, Madhu Vellakal, Jian Liu, **Enyi Jiang**, Seid Koric, Volodymyr Kindratenko. (2019). *Review and Examination of Input Feature Preparation Methods and Machine Learning Models for Turbulence Modeling*. Computer Methods in Applied Mechanics and Engineering. Manuscript submitted for publication.(link)

- Shirui Luo, Jiahuan Cui, Jian Liu, **Enyi Jiang**, Volodymyr Kindratenko. (2019). *Turbomachinery Blade Design Using Deep Learning*. Manuscript in preparation.

Awards

- Meritorious Winner of Mathematical Contest In Modeling (certificate) (paper) *Feb. 2018*
- Summer 2019 SPIN Intern Completion with Recognition Letter(link) *July 2019*
- Dean's List of UIUC *Mar. 2019*
- First-Class Student Award of Zhejiang University *Nov. 2017*
- Academic First-Class Scholarship of ZJU-UIUC Institute (RMB 60,000) *2017, 2018*

Coursework

- **Artificial Intelligence and Data Science**: Artificial Intelligence, Machine Learning, Applied Machine Learning, Intro to Data Mining

- **Programming, Algorithm, and Math**: Data Structure, Discrete Mathematics, Probability with Engineering Application, Algorithms and Models of Computation, Applied Parallel Programming

Programming Skills

- **Programming Languages**: Python, C, C++, R, SystemVerilog, Matlab

Teaching

- **Math 213**: Discrete Mathematics, *Teaching Assistant* Fall 2019

- **CS 225**: Data Structures, *Teaching Assistant* Spring 2020

Extracurricular Activities

- Keyboard Player in Youth Worship Team at Chong-Yi Church *(2013-Present)* Hangzhou, Zhejiang
  - Played keyboard in a youth band since my high school, servicing Christian youth at church

- Creator of Instrument Club at Zhejiang University International Campus *(2017-2018)* Haining, Zhejiang
  - Created a space for sharing diverse music instruments and forms among students and staff

- Active Participator in Volunteering *(2017-2018)* Haining, Zhejiang
  - As a member of Youth Committee Department of Young Volunteers, planned various volunteering activities for students at International Campus
  - Went to Guizhou for social practice, investigating reading conditions for the youth