# Jingyun Jia

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## EDUCATION

### FLORIDA TECH
PhD. IN Computer Science
GPA: 4.0
Research Area:
- Representation Learning
- Open Set Recognition
- Anomaly Detection
Expected May 2022 | Melbourne, FL

### UNIVERSITY OF EDINBURGH
MSc. IN Informatics
2013 - 2014 | Edinburgh, Scotland

### XIAMEN UNIVERSITY
BEng. in Software Engineering
2009 - 2013 | Xiamen, China

## LINKS

Github:// **clojia**  LinkedIn:// **jingyun-jia**
Porfolio:// **clojia.github.io**

## SKILLS

- Deep Learning (CNN, GAN, etc)
- Machine Learning • Data Mining
- Big Data Processing • Database
- Algorithm Design • Workflow Design

## TOOLS

- PyTorch•Tensorflow •Keras •Spark
- Hive • Redis •Linux •Shell
- PostgreSQL •MongoDB •PostGIS
- Weka

## PROGRAMMING
- Python • Java • C++ • Scala • SQL

## COURSEWORK

### GRADUATE LEVEL
Deep Learning
Artificial Intelligence
Machine Learning & Pattern Recognition
Formal Language and Automata
Probabilistic Modelling and Reasoning
Reinforcement Learning
Data Mining
Advanced Database
(TA for)
Data Structure and Algorithm Analysis
Programming with C++

## EXPERIENCE

### FLORIDA INSTITUTE OF TECHNOLOGY | Research assistant
Aug 2018 – Today | Melbourne, FL
- Open Set Recognition in Malware Classification via Learning Latent Representation of Function Call Graphs. (Computer Science Department RA)
- Estimation of Interior Damage Due to Wind Driven Rain Ingress into Mid/High Rise Buildings. (Civil Engineering Department RA for summer only)

### FOURSQUARE (FACTUAL INC.) | Data Scientist Intern
May 2019 – Aug 2019 | Los Angeles, CA
- Improved model performance on particular data by developing and deploying an oversampling workflow.
- Designed and developed new model performance evaluation metrics for calibrating sampling biases.
- Improved model performance by introducing new features.

### CTRIP | Algorithm Engineer
Nov 2017 – Jul 2018 | Shanghai, China
- Designed and deployed an intelligent recommender system for hotel order page (web), optimized user experience measured by user visits and orders.
- Implemented a real-time hotel recommender system for the listing page.
- Boosted ROI by designing a hotel bidding algorithm and reduced labor hours by implementing an auto bidding workflow.

### FACTUAL INC. (NOW FOURSQUARE) | Data Engineer
Sep 2015 – Oct 2017 | Shanghai, China
- Led geocoding team, designed and deployed a density-based geocodes summarization algorithm, which improved geocodes accuracy by 50 points total for 50 countries.
- Engaged in the proposals, researches, experiments, and developments of new geopulse and geo-fence products.
- Improved model performance by introducing and implementing new models and features.

## PROJECT EXAMPLES

- Implementing hurricane risk estimation model using Python Dask.
- Facial expressions recognition using convolutional neural networks.
- Topological cluster of NYC wifi hotspots using ToMATo algorithm.
- Hand drawn doodle recognition on micro-controller using deep learning.
- Sentimental analysis for hotel reviews using BiGRU and attention mechanism.
- Airbnb Kaggle challenge: Hotel Booking Prediction using XGBoost.
- Building real-time hotel recommender system using deep learning.
- Building hotel price bidding system using the Random Forest algorithm.
- Bus arrival time prediction using Support Vector Machine and Kalman Filter.
- Pingpong game development using OpenGL.

## AWARDS

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|---|---|
| 2019 | Google Tensorflow2.0 hackathon winner |
| 2017 | Factual hackathon winner |
| 2012 | Xiamen University Academic Scholarship |
| 2013 | Xiamen University Academic Scholarship |