

# Rui (Emily) Zhou

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## ▣ Education backgrounds

- **Sept. 2016 - May. 2020 Shanghai, China Donghua University (DHU) Management Science and Engineering**  
Master's degree;  
Research topic: Operational optimization of energy systems in the building cluster considering uncertainty
- **Sept. 2017 - Sept. 2018 Starkville, the United States Mississippi State University Industrial and Systems Engineering**  
Working for the Master's degree under the co-supervision;  
Research topic: Management of supplier risk for the low-volume-high-value manufacturing industry (i.e., shipbuilding and aircraft production);
- **Sept. 2012 - Jul. 2016 Dalian, China Dongbei University of Finance & Economics (DUFE) E-business**  
Bachelor's degree (GPA: 3.88/4.0; Ranking: 1st/39);  
Ranked the first in the school in term of the comprehensive performance and was enrolled by DHU in advance as a research graduate without taking any exam;
- **Mar. 2014 - Jul. 2016 Dalian, China Dongbei University of Finance & Economics Business English**  
Bachelor's degree  
Passed the Test of English Major-8 (high level) successfully;

## ▣ Awards & Honors

- May. 2017, Chinese Government Scholarship, China Scholarship Council;
- Dec. 2015, National Scholarship for Encouragement;
- Dec. 2014, "Liaoning Provincial Government" Scholarship 2016 (the top 0.5% students of each school);
- Dec. 2013, National Scholarship for Encouragement;
- Feb. 2016, "Outstanding Graduates in Dalian of 2016";
- Dec. 2015, "Dalian Rural Commercial Bank" Scholarship;
- Dec. 2015, "Bank of Tokyo-Mitsubishi UFJ" Scholarship (the top 1% graduates of each school);
- Jun. 2016, "Dashang Group" Scholarship;
- Sept. 2016 - Mar. 2019, "DHU First-prize" Scholarships for postgraduates;
- Sept. 2012 - Jun. 2016, "DUFE First-prize" Scholarships and "DUFE Second-prize" Scholarship;
- Sept. 2012 - Jun. 2016, "DUFE Merit Student";
- May. 2017, National English Competition for College Students (Level A), the third prize;
- May. 2015, National English Competition for College Students (Level C), the third prize;
- Jun. 2015, Dalian Math Competition for College Students (Level B), the second prize;
- Jun. 2013, Dalian Math Competition for College Students (Level B), the second prize;
- Nov. 2014, DUFE CV Design Contest, honorable mention;

## ▣ Skills

- **Mathematical modeling:** Mixed Integer programming, Stochastic programming, Linearization techniques and the solving of the large-sized problem;
- **Algorithm:** Benders decomposition and Greedy algorithm;
- **Coding:** Python (good), MATLAB, and C;

- **Software:** National Computer Rank Examination (level 4), MS OFFICE software (good), GUROBI, SAP ERP, LyX, and Zotero;
- **English:** Good at reading and writing, fluent in speaking and listening, and passed Test for English Major-8,
- **Others:** Securities qualification examination;

#### ▣Project experiences

- **Sept. 2016 – Jan. 2020 The optimization of the integrated energy system for the building cluster using stochastic programming & The optimization of product configuration for customer demands under the ATO supply chain environment (Supervisor: Dr. Dong Yang) participant**  
Published a Chinese paper (1<sup>st</sup> author); Written an English paper (1<sup>st</sup> author);
- **Sept. 2017 - Sept. 2018 Transportation and supply chain network optimization using stochastic programming (Supervisor: Dr. Hugh R. Medal)**  
Written an English paper (1<sup>st</sup> author);
- **Jan. 2016 - May. 2016 The study of the user-based collaborative filtering (UCF) algorithm in recommendation systems for B2C E-commerce (Supervisor: Dr. Boyang Li)**  
Learnt collaborative filtering algorithm and adopted some statistical methods to improve this algorithm; programmed the improved UCF Algorithm with Python and compared its performance with the reference UCF's using 100 000 ratings data from the MovieLens successfully;
- **Jul. 2014 - Jul. 2015 “Xuexibang” platform (an innovation and entrepreneurship training program for College Students) main participant**  
Reorganized and submitted the application of this program and finished the design and building of the static websites for this platform;  
This program was appraised as the provincial level (state-level) one;

#### ▣Activities on campus

- **Oct. 2012 - Oct. 2015 School of Management Science and Engineering, DUFU, the department of work-study program, member → vice head → head**  
Worked with or directed 10 teammates for the work-study programs of near 190 students; organized and held lots of activities such as experience sharing for freshers and school showing in the student festival; guaranteed the smooth allocation of funds of about \$157,000 and collected about 1,200 books for those 190 students;  
The whole group was appraised as the outstanding department of part-work and part-study in DUFU;
- **Oct. 2012 – Oct. 2014 School of Management Science and Engineering, DUFU, the Information Office, member → vice director**  
Wrote and published the information of different meetings and activities for the whole school;

#### ▣Self-assessment

**Skills:** got the Bachelor of Management and changed the management major to the engineering in postgraduate period; sensitive to the data and good at mathematic modeling (specifically, the ability to build mathematic models for the management or decision-making problems of a complex integrated system); capable of solving the large-sized problems using python; good in English reading and writing and fluent in speaking and listening;

**Personalities:** positive attitude; good abilities to communicate with others; outstanding abilities to learn new things or skills, understand others, address problems independently, and work under high pressure; diligent, self-controlled, honest, and conscientious personality.