

# Chenyuan Shangguan

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## EDUCATION

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- **North China Electric Power University** Beijing, China  
*Master of Computer Science and Technology* Sep. 2021 – Present  
GPA: 3.48/5.00, Advisor: Prof. Ying Zhang
- **Beijing City University** Beijing, China  
*Bachelor in Software Engineering* Sep. 2016 – Jun. 2020  
GPA: 3.6/4.0, Ranking: 2/63
- **Beijing Jiaotong University** Beijing, China  
*Minor in Urban Transportation* Sep. 2017 – Jun. 2021

## PUBLICATIONS

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- Ying Zhang\*, **Chenyuan Shangguan**, Xuena Zhang et al. “Computer-Aided Diagnosis of Complications after Liver Transplantation Based on Transfer Learning”, **Interdisciplinary Sciences: Computational Life Sciences**.

## PATENTS

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- A Prediction Method for Mechanical Properties of Coarse-grained Soil with Large Particles Based on Progressive Ensemble Learning (co-inventor) - CN Patent #CN115204499A
- A Prediction Method for Mechanical Properties of Coarse-grained Soil Based on The Sequence Model (co-inventor) - CN Patent #CN115221783A

## EXPERIENCE

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- **North China Electric Power University** Beijing, China  
Sep. 2021 – Present
  - **Research on auxiliary decision for liver transplantation based on machine learning:**  
Proposed a framework to increase the accuracy of computer-aided diagnosis of complications after liver transplantation with transfer learning, and to explore key features of postoperative complications.
  - **Research on scale effect of coarse-grained soil based on deep learning:**  
Proposed a method called Incremental Regression for Transfer Learning (iReTL) to characterize the stress-strain behavior of coarse-grained soils, specifically targeting the mechanical properties of coarse-grained soils with large particle sizes.
- **Beijing City University** Beijing, China  
Sep. 2016 – Apr. 2020
  - **Personalized travel itinerary recommendation system based on machine learning:**  
Developed a personalized recommendation system for travel services. We first collected tourist location information from internet introduction pages and the travel agency, and then processed the data using natural language processing (NLP) technology to recommend locations that best meet customer needs.

## HONORS

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### Scholarships

- First Prize Scholarship, Beijing City University 2019

### Awards

- Outstanding Graduate, Beijing City University 2020
- The 9th National Software and Information Technology Professionals Competition (Blue Bridge Cup) National Excellent Award 2018

## ADDITIONAL INFORMATION

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### English

- TOEFL-iBT: 85