# Lichuan Deng

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## Research Interests

**Deep Learning, Reinforcement Learning, Algorithms for Machine Learning Application**

## Education:

**Southwestern University of Finance and Economics**        Chengdu, China

***Bachelor of Science*** & ***Bachelor of Economics***        *Aug.2016 – July.2020*

     **Major:** Mathematics and Applied Mathematics

     **Cumulative GPA:** 3.6/4 for All (included general education curriculum)

                        3.9/4 for Bachelor degree of Science

                        3.6/4 for Bachelor degree of Economics

***Graduation thesis:***

- *Face Recognition Based on Non-negative Matrix Factorization Algorithm.*
- *Multi-Agent Contract Problem under Continuous Time.*

## Experience:

*May. 2019*      **Research Assistant, *Probabilistic Preference Modeling for Intelligent Decision-Making Under Uncertainty in the Inconsistent and Dynamic Environment***

         ✧   Develop a dynamic and imperfect information game model to address the inconsistency of information and dynamic nature of the decision-making process;

         ✧   Innovate by t-Copula simulation of a non-stationary Markov chain with the probabilistic fuzzy regression and chaos optimization algorithm for modeling of reward transition;

         ✧   The deep Q-network algorithm of reinforcement learning is used to ensure the effectiveness of the optimal behavior in the process of decision- making.

         **Main work:** literature collection, partial model building, algorithm, editor

## Qualities:

**Skills:**          Python, JAVA, SQL, Matlab, LATEX, and learning of C/C++.

**Awards:**        The Successful Participant of Mathematical Contest in Modeling (MCM)

                  The Third-best Scholarship for Outstanding Students, twice (2016, 2017)

                  Sports and Arts Scholarship (2016)

                  The 2nd Prize of Health and Vitality Competition Wushu Group (2016)