

# FENGYU DENG

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## EDUCATION

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**Shanghai Jiao Tong University**

*September 2014 - June 2018(expected)*

Major: Electrical Engineering

Overall GPA: 87.46/100 Major GPA: 89.83/100 Rank: 18/169

Interest: Data Science, Natural Language Processing, Machine Learning

## RESEARCH INTERN

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**University of California, Santa Barbara**

*April 2017 - September 2017*

Natural Language Processing lab, Computer Science Department

Advisor: Prof. William Wang

Project: Reinforcement Learning framework for temporal QA reasoning

## PUBLICATIONS

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[1] **F. Deng**, WY. Wang, “**Reinforcement Learning framework for temporal QA reasoning**”, prepare to submit to *Proc. of NAACL* 2018.

[2] **F. Deng**, L. Kong, J. Liu, J. Zhao, J. Wang, L. Fu, Xinbing Wang, “**Evolving Scholarly Networks: Experiments, Modeling and Analysis**”, submitted to *ACM KDD* 2017. (Average quality score : 3.75)

[3] Z. Song, L. Wang, S. Li, Y. Gou, **F. Deng**, Z. Wu, L. Fu, Xinbing Wang, “**ZeroRank: Ranking Current Year Scientific Literatures with No Citation**”, submitted to *ACM CIKM* 2016.

## PROJECTS

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Research in **Natural Language Processing** (Supervisor: **Prof. William Wang**)

**Reinforcement Learning framework for temporal Question-Answer reasoning** *April 2017 - present*

*Project leader*

- Investigated and defined temporal QA problems.
- Constructed a new dataset for temporal reading comprehension.
- Designed and implemented a model for temporal RC.

Research in **Data Mining & Networks** (Supervisor: **Prof. Xinbing Wang**)

**Evolving Scholarly Networks based on big data**

*June 2016 - February 2017*

*Project leader*

- Originally explored comprehensive properties in scholarly networks by experiments on real-world datasets.
- Proposed a comprehensive model of evolving scholarly networks.
- Offered detailed mathematical proof to consolidate the reasonability of our model.
- Simulated the evolving process of scholarly networks.

**Novel Academic Information System Design**

*Mar 2016 - Present*

*Project member*

- Classified papers by their field concerned in hierarchy

- Used Force-Directed Drawing Algorithms to find the appropriate position of each paper and output svg files
- Converted svg files to png files and snip them into tiles for showing in the website

### **Acenap: Academic Network Analytic Platform**

*February 2017 - Present*

*Project member*

- Generating models that are commonly used in social network analysis.
- Displaying algorithms that are either proposed by our own research group, or adopted from the existing state-of-the-art work in social-related areas.
- A collection of datasets from different social networks and academic networks. Some of them are crawled by our own research group, while others are collected elsewhere but processed with our own research usage.

### **Zero Citation Ranking for Scientific Literature**

*October 2015 - Mar 2016*

*Project member*

- Proposed a new problem – ranking no citation papers that are recently published.
- Designed an novel algorithm combining both random walk in heterogeneosu network and learning to rank method.
- Conducted experiments to show our method ourperformed previous methods.

## **PATENTS**

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[1] Z. Wu, **F. Deng**, Z. Song, L. Wang, S. Li, H. Wu, Y. Yang, Y. Yang, W. He, Y. Liao, Y. Qi, J. Zhao, L. Fu, X. Wang, “**Ranking No Citation Papers Based on Random Walk Model**”, China, Invention Patent.

## **HONORS & AWARDS**

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Kai-Yuan Endeavor scholarship (Awarded to 15 out of 12,000 undergrads at SJTU)	<i>2017</i>
National Endeavor scholarship (Top 5% of undergrads in SJTU)	<i>2017,2016</i>
Scholarship of Academic Excellence of SEIEE (Top 10% in the EE Department)	<i>2017,2016,2015</i>
Second Prize in China Undergraduate Mathematical Contest in Modeling (China)	<i>2016</i>
Second Prize in China Undergraduate Physics Contest(Shanghai)	<i>2015</i>

## **EXTRACURRICULAR EXPERIENCE**

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### **Teaching Assistant, SJTU for EI 901 (Electronics Lab.)**

- Taught project design on multimeter.

### **Volunteer leader in Shanghai International Marathon 2015**

- Organized volunteers to supply nutritious food for athletes

### **Member in Student Leadership Camp**

- Responsible for holding plentyful activities to develop leadership.

## **TECHNICAL STRENGTHS**

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<b>Computer Languages</b>	Proficient in Python, C/C++; Familiar with Java, Verilog, SQL
<b>Web Design</b>	HTML/JS/CSS, BootStrap
<b>Other Tools</b>	L <sup>A</sup> T <sub>E</sub> X, Git, Pytorch, TensorFlow, MATLAB