

# Haochuan Cui

## Curriculum Vitae



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## Research Interests

- Science of Science
- 📌 **Impact evaluation** I focus on local and personalised impact evaluation and ranking
  - 📌 **Collaboration** especially relation between collaboration behavior and resulting impact. I try to answer a series of questions, such as how authors benefit from collaboration, how authors change research topic through collaboration, etc.
  - 📌 **Evolution of the Scientific Systems** I focus on the evolution of the scientific fields (such as differentiation and reconstruction in scientific systems) and try to explain the formation of disciplinary boundaries from a quantitative perspective

## Education

- 2016 –      📌 **Ph.D. Student in Systems Theory, Beijing Normal University** .  
Research Topics: *Science of Science, Human Behavior, Complex Network*
- 2012 – 2016      📌 **Bachelor degree in Mathematics and Applied Mathematics, Anhui University** .

## Skills

- Languages      📌 General reading, writing and speaking competencies for English, Mandarin Chinese
- Coding      📌 **Good at** Python, Matlab, R, SQL, XML/XSL,  $\text{\LaTeX}$ ,  
📌 **Familiar with** C/C++ .
- Databases      📌 MySQL, MongoDB, SQLite.
- Web Dev      📌 HTML, CSS, JavaScript, Apache Web Server.
- Software      📌 Office, Gephi, QGIS, Wolfram Mathematics  
📌 Linux System Operation Maintenance, Data crawler,

## Research Publications

- 2018      📌 Haochuan Cui, An Zeng, Fan Ying, Zengru Di. Quantifying effective citations in scientific publications based on abstract (To be submitted).

## Research Experiences

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- 2018.10-present    ■ **Collaboration in scientists' career.** ( Advisor: Dr. An Zeng, School of Systems Science, Beijing Normal University )  
This work focus on the relation between collaboration behavior and resulting impact. I computer the benefit from authors' cooperation in their careers and find that stable cooperation may lead to loss on reputation in some authors' careers. My further work is to build model to explain this kind of phenomenon
- 2018.7-2018.10    ■ **Find the direct inspiration source of scientific publications based on abstract** ( Advisor: Dr. An Zeng, School of Systems Science, Beijing Normal University )  
We propose a method using local diffusion process on citation networks to identify the key references for each scientific publication. The effectiveness and robustness of the method is validated in a subset of the American Physical Society data in which the key references are mentioned in the abstract of papers. We further define an effective citation metric for quantifying the actual impact of each paper and its evolution, which additionally reveals the interdisciplinarity of research at journal and nation levels.

## Conferences and other academic activities

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- 2018.11    ■ **Presentation.** Chinese Conference on Complex Networks (CCCN), Chongqin, China, 2018    Title: "Quantifying effective citations in scientific publications".
- 2018.04    ■ **Poster** Chinese Systems Science Conference (CSSC), Beijing, China, 2018    Title: "Predicting the future trend of popularity based on early structure".

## Honors and Awards

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- 2017.11    ■ **The Second Prize Scholarship of Beijing Normal University**
- 2016.11    ■ **The Freshman Scholarship of Beijing Normal University**
- 2016.04    ■ **Meritorious Winner of the Interdisciplinary Contest In Modeling**
- 2015.11    ■ **The Baogang Scholarship** (totally 5 students in the university)
- 2015.10    ■ **First prize in the China Undergraduate Mathematical Contest in Modeling**
- 2015.04    ■ **Meritorious Winner of the Interdisciplinary Contest In Modeling**
- 2014.11    ■ **The First Prize Scholarship of Anhui University**
- 2013.11    ■ **The Xindi Scholarship of Anhui University** (totally 25 students in the university)
- 2013.10    ■ **Second prize in the Anhui Contest District in the 5th Chinese Mathematics Competitions** (33rd in Anhui Contest District)

## Others

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- 2017    ■ **Big data platform for Education**  
I join in the project 'Big data platform for Education' (see <http://bd.bnu.edu.cn>), leaded by Beijing Normal University and IFLYTEK CO.,LTD , and undertake the design and development work of Chinese basic education development information sub-platform (see [http://bd.bnu.edu.cn/evaluate-platform/ep\\_index.html](http://bd.bnu.edu.cn/evaluate-platform/ep_index.html))