

# Tzu-Heng Lin (Brian) Maker, Hacker, *Creativity drives my life.*

Website : <http://lzhbrian.me>

Born in *Taiwan*, Grown up in *Shanghai*, now Studying in *Beijing* (will graduate in 2018) Email : [lzhbrian@gmail.com](mailto:lzhbrian@gmail.com)  
Currently : Junior student in *Dept.of Electronic Engineering, Tsinghua University* Mobile : +86-131-2192-9165  
Objective : *Seeking Summer Internship in 2017* [\[Linkedin\]](#) [\[Github\]](#)

## EDUCATION

### Tsinghua University (Dual Degree)

Beijing, China

- *Bachelor of Science in Electronic Information GPA: 84/100* Aug. 2014 – June. 2018  
*Bachelor of Business Administration in Management (2nd Degree) GPA: 87/100*

## TECHNOLOGY SKILLS

- **Languages:** Python, C/C++, Matlab, R **Technologies:** Git, Hadoop, Weka, MySQL, Tableau

## EXPERIENCE & PROJECTS

### Tsinghua University [\[link\]](#)

Beijing, China

- *Research Assistant in Future Communication & Internet Lab* Apr 2016 - Present (9 mo)
  - **Online Video Consumption Behaviors Analysis** (Finished, Paper in submission)
    - Mining a TB-scale, 2-Month, 10-Million-User dataset from an ISP including viewing records of most main Video Content Providers, including Youku, IQIYI, Sohu, LeTV, Tencent, KanKan, etc.
    - Studied the migratory behaviors of users, found potential migratory reasons.
    - Responsible for all of the data processing and analysis work.
      - Written hundreds of Hadoop MapReduce programs in Java and also use Python to process the data.
      - Analyze and Visualize the data using Matlab and R.
  - **Online Shopping Behaviors Analysis** (Finished, Paper in submission)
    - Mining a 30-Day, Million-User-scale dataset of JD viewing log.
    - Discovered unique user behaviors when browsing.
    - Responsible for most of the data processing and analysis work. (Same as the above Project)

### Academia Sinica [\[link\]](#)

Taipei, Taiwan

- *Summer Research Internship in Data Insights Research Lab* July 2016 - Aug 2016 (2 mo)
  - **Data Mining in Facebook Fan Pages:**
    - *Academia Sinica* is the Top National Academy of Taiwan.
    - Research in a dataset with more than 200,000 Facebook Fan Pages, 28 million posts with like records in Taiwan.
      - Found patterns in posts and real categories of pages.
      - Skills including *Statistics, Machine Learning, Text Mining, Time Series Analysis*.
  - **Volunteer, Data Science in Taiwan Conference** [\[link\]](#)

### Student Association of Science and Technology, EE, THU [\[link\]](#)

Beijing, China

- *Leader of Web Development, Tsinghua Teamstyle Programming Competition* Jul 2015 - May 2016 (10 mo)
  - **Web development:** [\[github repo\]](#)
    - Led the web development team of *Tsinghua Teamstyle Programming Competition 2016*.
      - Built the backend using *Yii framework* (PHP, MVC).
      - Designed and Built most data structures using *MySQL*.
      - Implemented most of the features, including *Register, Login, Online Battle, Forum* and *Code submit*, etc.
    - Co-work, version control using *Git*.

### THU MakerSpace [\[link\]](#)

Beijing, China

- *Vice President, 2 years experience in maker field* Sep 2015 - Present (1.5 yrs)
  - **Maker Events and Competitions held weekly:**
    - THU MakerSpace is one of the greatest Maker Spaces in China.
      - We have received letters from Premier Keqiang Li. [\[press\]](#)
    - Led the work of *Project Dept, the Public Relation Dept. & the Standing Dept.*
      - Responsible for the Maker Events and Competitions held weekly
      - Such as *Arduino Tutorial, Processing, 3D modeling, Design thinking* and *Brain Storming Workshops*, etc.
    - Directed several projects, and also Winners of many Make-a-thons.

## PROJECTS IN COMPETITIONS AND AWARDS

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- **PennyRaiser: A smart donation box** [\[press\]](#) [\[press\]](#) *Apr 2015 - Sep 2015 (3 day; 6 mo)*
  - **Tsinghua Maker Challenge 2015: Championship**
  - **China-US Maker Competition 2015: 3rd Prize, Top 5/300 maker teams from the world**
    - *China-US Maker Competition* is the biggest Make-a-thon in China & US. [\[link\]](#)
    - As **Team Leader** & **Software Eng.**, won the 5th place out of 300 teams all over the world in 2015.
      - Led & organized the team. Started the project.
      - *iOS app development* using *Swift* with *Xcode*.
        - Built features include *TableView present*, *SideMenu*, *Customized Tab Button*, *Customized Segue Effect*.
        - *QR Code* support which could connect mobile devices with the hardware.
      - *Design*, *3D modeling*, *3D printing* and *Laser cutting* to build to whole prototype.
- **ITE: Your personal 'kids-can-program' phone companion** [\[post\]](#) *May 2016 - May 2016 (3 day)*
  - **Tsinghua Maker Challenge 2016: Championship**
    - *Tsinghua Maker Challenge* is the biggest Make-a-thon held in Tsinghua.
    - As **Team Leader** & **Software Eng.**, won the Championship in 2016.
      - Led & organized the team. Started the project.
      - *iOS app development* using *Swift* with *Xcode*.
        - Built features include *TableView present*, *Customized Tab Button*, *Customized Segue Effect*.
      - Integrated open-sourced-project using *CocoaPods*
- **A gameAI for Tsinghua Teamstyle Programming Contest 2015** *Apr 2015 - May 2015 (1 mo)*
  - **Tsinghua Teamstyle Programming Contest 2015: 3rd Prize**
    - *Tsinghua Teamstyle Programming Contest* is one of the biggest programming competitions writing AI for games.
    - As **Team Leader**, won the 3rd Prize in 2015.
      - Led the team.
      - Developed strategies and implemented using C++

## SELECTED HONORS

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- **Maker Representative** , Tsinghua University [\[picture\]](#)
  - Honored this title by the contributions & achievements in the maker field.*
- **1st Prize Scholarship for Taiwanese Student** , Minister of Education, P.R.C.
  - Top 3/50, Awarded 1st prize scholarship honor for Taiwanese students studying in Mainland China.*
- **Zheng Geru Scholarship for Comprehensive Performance** , Tsinghua University
  - Top 35/260, for students who have achieved multiple individual scholarships.*
    - Including excellence scholarships for: Science and Technology, Social Work, Arts and Cultural, respectively.*

## PUBLICATIONS

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- H.Yan, **T.Lin**, G.Wang, Y.Li, H.Zheng, D.Jin, and B.Zhao, On Migratory Behavior in Video Consumption, *Paper Submitted*.
- H.Yan, **T.Lin**, C.Gao, Y.Li, and D.Jin, On the Understanding of User Behaviors Over Multiple Video Content Providers, *Journal Paper Submitted*.
- H.Yan, Z.Wang, **T.Lin**, Y.Li, Y.Wang, and D.Jin, Profiling Users by Online Shopping Behaviors, *Poster Paper Submitted*.