

Lin, Tzu-Heng (Brian)

Senior undergraduate student (graduate: 2018)

Department of Electronic Engineering

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Areas of Interest

Computer Science

Data Mining, Machine Learning

Computer Vision

Education

- 2014-2018 B.S. in [Electronic Information](#), Tsinghua University
- 2014-2018 B.B.A. in [Management \(2nd Degree\)](#), Tsinghua University

Appointments held

PROFESSIONAL

- 2017.2- Research Software Engineer Intern, [OwlII Inc.](#), Beijing
- 2016.4- Research Assistant, [Future Internet & Communication Lab](#), Tsinghua University, Beijing
- 2016.7-2016.8 Summer Research Intern, [Data Insights Research Lab](#), Academia Sinica, Taiwan

STUDENT ASSOCIATIONS

- 2015.9-2017.2 Vice President, [THU MakerSpace](#)
- 2015.7-2016.5 Vice Leader (Web Dev), Dept. of Web & Publicity, [Student Asso.of Sci. & Tech., EE, THU \(EESAST\)](#)
- 2015.9-2016.5 Vice Leader, Dept. of Competition, Student Asso.of Sci. & Tech., THU (THUSAST)

Service to the profession

- 2017 Reviewer, [IEEE TNSM \(IF=3.314\)](#) (*IEEE Transactions on Network and Service Management*)

Publications

CONFERENCE

- ACM
CIKM'17 Huan Yan, **Tzu-Heng Lin**, Gang Wang, Yong Li, Haitao Zheng, Depeng Jin and Ben Zhao. On Migratory Behavior in Video Consumption. In Proceedings of The 26th ACM International Conference on Information and Knowledge Management, Singapore, November 2017, to appear
- IEEE
Globecom'17 Huan Yan, **Tzu-Heng Lin**, Ming Zeng, Jing Wu, Jiaxin Huang, Yong Li, Depeng Jin. Characterizing the Usage of Mobile Video Service in Cellular Networks, In Proceedings of 2017 IEEE Global Communications Conference: Communications Software, Services and Multimedia Apps, Singapore, Dec 2017, to appear
- AAAI
ICWSM'17 Huan Yan, **Tzu-Heng Lin**, Gang Wang, Yong Li, Haitao Zheng, Depeng Jin, Ben Y. Zhao. A First Look at User Switching Behaviors Over Multiple Video Content Providers. In Proceedings of International AAAI Conference on Web and Social Media, Montreal, Canada, May 2017
- ACM
CoNEXT'17 **Tzu-Heng Lin**, Yong Li, Pengyu Zhang. In-app User Clicking Behavior Identification via Mobile Traffic Mining. **Submitted to ACM CoNEXT'17**

JOURNAL

- IEEE
TNSM Huan Yan, **Tzu-Heng Lin**, Chuhan Gao, Yong Li, Depeng Jin. On the Understanding of User Behaviors Over Multiple Video Content Providers. **Submitted to IEEE TNSM**
- Springer Huan Yan, Zhifeng Wang, **Tzu-Heng Lin**, Yong Li, Depeng Jin. Profiling Users by Online Shopping Behaviors. **Submitted to Multimedia Tools and Applications, Springer**

Honors & Awards

HONORS

- 2016 [Maker Representative](#), Tsinghua University
- 2015 Member of the [Qi Chuang Entrepreneurial Talent Training Program](#), Tsinghua University
- 2014 Graduate from high school with the highest honor.
College Admission Offers From:
[Tsinghua University \(THU\)](#), [Peking University \(PKU\)](#), [Hong Kong University \(HKU\)](#),
[National Taiwan University \(NTU\)](#), [National Tsing Hua University \(NTHU\)](#)

AWARDS

- 2016 Championship (as Team Leader), [Tsinghua Make-a-thon 2016](#)
- 2015 3rd Prize (as Team Leader), Final, [China-US Maker Competition](#), MoE, P.R.C & Intel
2nd Place (as Team Leader), Beijing, [China-US Maker Competition](#), MoE, P.R.C & Intel
Championship (as Team Leader), [Tsinghua Make-a-thon 2015](#)
3rd Prize (as Team Leader), [Tsinghua Programming Contest 2015](#)

SCHOLARSHIPS

2016	<i>Zheng Geru Scholarship (Top 35/260)</i> for Comprehensive Performance, Tsinghua University Second Prize (Top 3/50), <i>Taiwanese Student Scholarship</i> , Minister of Education, P.R.C <i>Science and Technology Excellence Scholarship</i> , Tsinghua University <i>Social Work Excellence Scholarship</i> , Tsinghua University <i>Art and Cultural Excellence Scholarship</i> , Tsinghua University
2015	First Prize (Top 2/50), <i>Taiwanese Student Scholarship</i> , Minister of Education, P.R.C <i>Science and Technology Excellence Scholarship</i> , Tsinghua University <i>Social Work Excellence Scholarship</i> , Tsinghua University

Skills

KNOWLEDGE

Experienced	Data Mining, Machine Learning, User Behavior Analysis Startup, Business Model
Familiar	Math (Calculus, Linear Algebra, Discrete Mathematics, Probability, Stochastic Process) Computer Vision Computer Network Computer Architecture Software Engineering Signal Processing, Electronic Circuit Design

PROGRAMMING LANGUAGES

Experienced	Python, Matlab, C/C++
Familiar	Shell Script, R, Verilog, Java, SQL

TOOLS & SOFTWARES

Experienced	git, Hadoop, Qt, CUDA, L ^A T _E X Linux, OSX
Familiar	pandas, scikit-learn, theano, DL4J, Weka, Tableau OpenCV, Dlib, Eigen, libigl (Contributor on Github) Meshlab, Meshlabserver (Contributor on Github) gem5, Wireshark, Multisim, Modelsim Arduino, Processing, SketchUp, 3D printing Jupyter Notebook, Vim, tmux, CMake, gcc, g++ Web Dev (Django,Yii, Bootstrap, HTML, CSS) iOS Dev (Xcode), Android Dev (Android Studio)

LANGUAGES

Native	Mandarin
Fluent	English (TOEFL 102, IELTS 7.5, TOEIC 910, GEPT high-intermediate)
Basic	Taiwanese, Shanghainese

Courses taken

ONLINE MOOC

CS344 [Intro to Parallel Programming \(CUDA GPU\) \(Udacity\)](#)

B.S. IN ELECTRONIC INFORMATION

Computer
Science
related

Intro to Information Science and Technology
Intro to Electronic Information Science and Technology (1)(2)
Operating System
Modern Computer Architecture
Communications and Networks
Computer Network: Technology and Practice
Fundamentals of Network technology
Fundamental of Digital Logic and Processor (CPU)
Fundamental Experiment of Digital Logic and Processor (CPU)

Programming
related

Data and Algorithm
C/C++ Programming (1)(2)
Advanced Matlab Programming
Web Design and Produce

Math related

Calculus A (1)(2)
Linear Algebra (1)(2)
Discrete Mathematics
Probability and Stochastic Processes (1)(2)
Functions of Complex Variables and Equations of Mathematical Physics
Intro of Mathematical Modelling

AI and ML
related

Pattern Recognition
Media and Cognition
Digital Image Processing
Dialogue between Neuroscience and Artificial Intelligence: Fundamentals and Frontiers

Electronic
Engineering
related

Physics for Scientists and Engineers A (1)(2)
Fundamentals of Electronic Circuits and System (1)(2)
Electrodynamics
Quantum Mechanics and Statistical Mechanics
Foundation of Solid State Physics
Lab. of Physics (1)(2)
Synthetical Practice of Electronics System Design
Basic Experiment of Electronic Circuits and Systems
Physical Electronics Foundation Laboratory
Electronic Circuit Course Design
Electromagnetic Field and Microwave Experiment
Communication Circuits Laboratory

Signal
Processing
related

Signals and Systems
Digital Signal Processing

B.B.A IN MANAGEMENT (2ND DEGREE)

Economics
and
Management
related

Accounting Principles
Principles of Economics
Business 101
Strategic Management
Marketing Management
Operation Management
Intellectual Property
Information Systems
Corporate Finance
Organizational Behavior

Startup
related

Innovation and entrepreneurship: insight from Silicon Valley
How To Start a Startup - Face To Face with Famous Entrepreneurs
Social innovation and entrepreneurship
Internet Business Model Innovation
Management of Technological Innovation
Leadership
Entrepreneurial Finance
Leadership Development

Projects

Please refer to <http://lzhbrian.me>

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