Lin, Tzu-Heng (Brian)

Senior undergraduate student (graduate: 2018)
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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 and Publicity, Student Asso.of Sci. & Tech., EE, THU
2015.9-2016.5	Vice Leader, Dept. of Competition, Student Asso.of Sci. & Tech., THU

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 Universtiy

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

2016 Zheng Geru Scholarship for Comprehensive Performance, Tsinghua University
Second Prize Scholarship for Taiwanese Student, Minister of Education, P.R.C
Science and Technology Excellence Scholarship, Tsinghua University
Social Work Excellence Scholarship, Tsinghua University
Art and Cultural Excellence Scholarship, Tsinghua University

2015 First Prize Scholarship for Taiwanese Student, Minister of Education, P.R.C
Science and Technology Excellence Scholarship, Tsinghua University
Social Work Excellence Scholarship, 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, HTML, CSS, SQL

TOOLS & SOFTWARES

Experienced git, Hadoop, Qt, CUDA, LATEX
Linux, OSX

Familiar CMake, gcc, g++
OpenCV, Dlib, Eigen, libigl (Contributor on Github)
Meshlab, Meshlabserver (Contributor on Github)
Weka, Tableau, theano, DL4J
gem5, Wireshark, Multisim, Modelsim
Arduino, Processing, SketchUp, 3D printer
Web Dev (Django,Yii, Bootstrap), iOS Dev (Xcode), Android Dev (Android Studio)

LANGUAGES

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

Courses taken

| CS344 | Intro to Parallel Programming (GPU) (Udacity) |

B.S. in Electronic Information

Computer Science related	Introduction to Information Science and Technology
	Introduction to Electronic Information Science and Technology (1)(2)
	Operating System
	Mordern 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
	Introduction of Mathematical Modelling
AI and ML related	Pattern Recognition
	Media and Cognition
	Digital Image Processing
	Dialogue between Neuroscience and Artificial Intelligence: Fudamentals 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 entreprenuership: 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