

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.
2016.4-	Research Assistant, Future Internet & Communication Lab, Tsinghua University
2016.7-2016.8	Summer Research Intern, Academia Sinica, Taiwan

STUDENT ASSOCIATIONS

2015.9-2017.2	Vice Chair, 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, <i>IEEE TNSM</i> (IEEE Transactions on Network and Service Management)
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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, L ^A T _E X Linux, OSX
Familiar	CMake, gcc, g++ OpenCV, Dlib Meshlab, Meshlabserver (Contributor on Github) Weka, Tableau, theano, DL4J gem5, Wireshark, Multisim, Modelsim Arduino, Processing, SketchUp, 3D printer Web Dev (Django,Yii), iOS Dev (Xcode), Android Dev (Android Studio)

LANGUAGES

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

Honors & Awards

HONORS

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

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

SCHOLARSHIPS

- 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

Publications

CONFERENCE

- Globecom'17 Huan Yan, **Tzu-Heng Lin**, Ming Zeng, Jing Wu, Jiabin 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
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
CoNEXT'17 **Tzu-Heng Lin**, Yong Li, Pengyu Zhang. In-app User Clicking Behavior Identification via Mobile Traffic Mining. **Submitted to ACM CoNEXT'17**
CIKM'17 Huan Yan, **Tzu-Heng Lin**, Gang Wang, Yong Li, Haitao Zheng, Depeng Jin and Ben Zhao. On Migratory Behavior in Video Consumption. **Submitted to ACM CIKM'17**

JOURNAL

- 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**

Courses taken

ONLINE MOOC

CS344 Intro to Parallel Programming (GPU) (Udacity)

B.S. IN ELECTRONIC INFORMATION

Computer Science related	<p>Introduction to Information Science and Technology</p> <p>Introduction to Electronic Information Science and Technology (1)(2)</p> <p>Operating System</p> <p>Mordern Computer Architecture</p> <p>Communications and Networks</p> <p>Computer Network: Technology and Practice</p> <p>Fundamentals of Network technology</p> <p>Fundamental of Digital Logic and Processor (CPU)</p> <p>Fundamental Experiment of Digital Logic and Processor (CPU)</p>
Programming related	<p>Data and Algorithm</p> <p>C/C++ Programming (1)(2)</p> <p>Advanced Matlab Programming</p> <p>Web Design and Produce</p>
Math related	<p>Calculus A (1)(2)</p> <p>Linear Algebra (1)(2)</p> <p>Discrete Mathematics</p> <p>Probability and Stochastic Processes (1)(2)</p> <p>Functions of Complex Variables and Equations of Mathematical Physics</p> <p>Introduction of Mathematical Modelling</p>
AI and ML related	<p>Pattern Recognition</p> <p>Media and Cognition</p> <p>Digital Image Processing</p> <p>Dialogue between Neuroscience and Artificial Intelligence: Fudamentals and Frontiers</p>
Electronic Engineering related	<p>Physics for Scientists and Engineers A (1)(2)</p> <p>Fundamentals of Electronic Circuits and System (1)(2)</p> <p>Electrodynamics</p> <p>Quantum Mechanics and Statistical Mechanics</p> <p>Foundation of Solid State Physics</p> <p>Lab. of Physics (1)(2)</p> <p>Synthetical Practice of Electronics System Design</p> <p>Basic Experiment of Electronic Circuits and Systems</p> <p>Physical Electronics Foundation Laboratory</p> <p>Electronic Circuit Course Design</p> <p>Electromagnetic Field and Microwave Experiment</p> <p>Communication Circuits Laboratory</p>
Signal Processing related	<p>Signals and Systems</p> <p>Digital Signal Processing</p>

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

To be written.

Last updated: August 5, 2017