

Honglin Yu

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Research Interests Data Mining, Machine Learning, Online Social Network Analysis

Education **Australian National University** Aug. 2011 - present
Ph.D. in Computer Science

- Thesis Topic: Popularity Analysis of YouTube Videos
- Thesis will be submitted before Aug. 2015

Southeast University, China Aug. 2009 - Jul. 2011
Finished master course in Automation

Southeast University, China Aug. 2005 - June 2009
Bachelor of Automation

- Rank: 4/120
- Best Graduation Thesis (2 out of 120)

Skill Highlights

- Firm programming skills, especially in **C/C++** and **python**
 - Also familiar with Javascript, R, Julia
 - Use Linux everyday for more than 6 years, skilled emacs user
- Broad knowledge in **Machine Learning**
 - Deep understanding of most used algorithms (SVM, Random Forest, ANN etc.)
 - Experienced in carrying out experiments and **feature engineering**
- Experienced in collecting and analyzing large scale Internet data
 - Skilled in implementing various online data **crawlers**
 - Familiar with mainstream databases
- Domain Knowledge related to Computational Social Science Research
 - **YouTube** video popularity analysis
 - Twitter user network analysis
- Basic Controller Design
 - Undergraduate major

Research Projects Please see <http://yuhonglin.github.io/project/> for more details

- Analyzing Twitter-driven **YouTube** Views
 - Predicting videos' viewcount with Twitter's feed (**Demo**)
 - Contributions: Most of the ideas; All the Software implementation, data collection, analysis and prediction
- Data Mining on **YouTube** Video Shot Sequences
 - Mining frequent remixed shots of from large number of videos
 - Contributions: Part of the ideas and data collection; All the implementation, data preprocessing and analysis
- Exploring the Phases of Popularity Evolution of **YouTube** Videos
 - Understanding viewcount dynamics by novel time series segmentation techniques
 - Contributions: Most of the ideas; All the software implementation, data collection, analysis and prediction

Software Highlights	<ul style="list-style-type: none"> • YTCrawl: a YouTube video history viewcount crawler • SegFit : a time series segmentation algorithm written in C++ • Shotdetect : a video shot detection program written in C++ 	
Papers	<ul style="list-style-type: none"> • Honglin Yu, Lexing Xie and Scott Sanner, Twitter-driven YouTube Views: Beyond Individual Influencers. Published in ACM Multimedia 2014. • Honglin Yu, Lexing Xie and Scott Sanner, Exploring the Popularity Phases of YouTube Videos: Observations, Insights, and Prediction. In preparation for resubmission. 	
Teaching Experience	<ul style="list-style-type: none"> • Computational Social Science Summer Short Course Teaching Assistant, Beihang University, China • Computer Network Teaching Assistant, Southeast University, China 	<p>Jul. 2013</p> <p>2011</p>
Awards	<ul style="list-style-type: none"> • Excellent Graduation Dissertation of Southeast University (2 out of 150) • Champion of the 3D Soccer Simulation League, Robocup Worldcup • National Mathematical Modeling Contest Third Prize of Jiangsu Province • Higher Mathematics Competition of Jiangsu Province, Third Prize 	<p>2009</p> <p>2008</p> <p>2008</p> <p>2006</p>
Review Experience	<ul style="list-style-type: none"> • International World Wide Web Conference (WWW) • ACM International Conference on Web Search and Data Mining (WSDM) 	
Language	Chinese (native)	English (fluent)
References	<div> <p>Dr. Lexing Xie Senior Lecturer Research School of Computer Science Australian National University affiliated with NICTA Email: lexing.xie@anu.edu.au Phone: (+61) 2 612 51646</p> <p>Dr. Henry Gardner Associate Professor and Reader College of Engineering & Computer Science Australian National University Email: henry.gardner@anu.edu.au Phone: (+61) 2 612 58181</p> </div> <div> <p>Dr. Scott Sanner Principal Researcher Machine Learning Group, NICTA Adjunct at Computer Science Australian National University Email: scott.sanner@nicta.com.au Phone: (+61) 2 6267 6330</p> </div>	