

# Honglin Yu

School of Computer Science, Australian National University, NICTA  
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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
  - Contributions: Most of the ideas; All the Software implementation, data collection, analysis and prediction; Demo website.
- Data Mining on **YouTube** Video Shot Sequences
  - Contributions: Part of the ideas and data collection; All the implementation, data preprocessing and analysis
- Exploring the Phases of Popularity Evolution of **YouTube** Videos
  - Contributions: Most of the ideas; All the software implementation, data collection, analysis and prediction

**Software Highlights**

- 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++

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