

Louis Lei Yu

Associate Professor
Department of Mathematics and Computer Science
Gustavus Adolphus College
Saint Peter, Minnesota 56082

Phone: (415)-374-9197
Email: lyu@gustavus.edu
Homepage: <http://homepages.gac.edu/~yul/>
Citizenship: Canadian

Education

Ph.D, Computer Science, University of Victoria, 2010.

Thesis Topic: Patterns, Formation and Properties of Social Networks in the Chinese Web.
Supervisor: Valerie King.

M.Sc, Computer Science, University of Victoria, 2005.

Thesis Topic: Routing Algorithms in Packet Networks Guaranteeing Users' Quality of Service.
Supervisor: Eric G. Manning.

B.Sc (honours), Computer Science, Queen's University, 2003.

Professional Experience

Gustavus Adolphus College

Associate Professor, May 2019 – present.

Assistant Professor (Tenure Track), September 2013 – May 2019.

Pomona College

Visiting Assistant Professor, September 2012 – June 2013.

Hewlett Packard Labs, Social Computing Lab

Postdoctoral Research Fellow, Bernardo Huberman, February 2011 – June 2012.

University of Victoria, Department of Computer Science

Research Assistant, Valerie King, September 2007 – June 2010.

Research Assistant, Eric G. Manning, September 2003 – September 2005.

University of Victoria, Department of Engineering

Research Assistant, Kin Fun Li, September 2005 – May 2007.

Queen's University, Department of Computer Science

Research Assistant, Michael Levison, September 2002 – August 2003.

Courses Taught

At Gustavus Adolphus College (Fall 2013 - Spring 2022)

Introduction to Computer Science I (MCS-177)

Fall 2013, Spring 2014. Fall 2014, Spring 2015, Fall 2015, Spring 2015, Fall 2016.

Introduction to Computer Science II (MCS-178)

Fall 2014, Spring 2015, Fall 2015, Spring 2017, Fall 2017, Spring 2018, Spring 2019, Fall 2020, Spring 2021, Fall 2021, Spring 2022,

Computer Organization (MCS-284)

Fall 2017, Fall 2018, Fall 2020, Fall 2021.

Principles of Programming Languages (MCS-287)

Spring 2016, Spring 2017, Spring 2019, Spring 2021.

Object-Oriented Software (MCS-270)

Spring 2022.

Topics: Social Computing (MCS-394)

Fall 2014, Spring 2014, Spring 2017.

Topics: Human-Computer Interaction (MCS-394)

Spring 2018.

First Term Seminar: Computer Music (FTS-100)

Fall 2016.

Computer Networks (MCS-377)

Fall 2016.

At Pomona College (Fall 2012, Spring 2013)

Algorithms (CS-140)

Fall 2012.

Introduction to Computer Science (CS-051)

Fall 2012, Spring 2013.

Fundamentals of Computer Science (CS-052)

Fall 2012.

Social Network Analysis (CS-181)

Spring 2013.

At the University of Victoria (Fall 2005)

Elementary Computing (CSC-100),

Fall 2005.

Other Teaching Responsibilities

At Gustavus Adolphus College (Fall 2013 - Spring 2022)

Lab Instructor, Introduction to Computer Science II (MCS-178)

Fall 2013, Spring 2014, Fall 2017, Fall 2020, Spring 2021, Fall 2021, Spring 2022.

Lab Instructor, Introduction to Computer Science I (MCS-177)

Fall 2013, Spring 2018.

Independent Study, Topics: Social Computing (MCS-394)

1 student, 1 credit, Fall 2014.

At Pomona College (Fall 2012, Spring 2013)

Lab Instructor, Introduction to Computer Science (CS-051)

Fall 2012, Spring 2013.

At the University of Victoria (Fall 2005 - Spring 2007)

Lab Instructor, Elementary Computing (CSC-100)

fall 2014, fall 2005, Spring 2006, Fall 2006, Spring 2007.

Advising

Gustavus Adolphus College, Department of Mathematics and Computer Science

Research Project Supervisor: Ha Le and Junming Wu, Summer 2021.

Research Project Supervisor: Filip Belik, Summer 2019.

Research Project Supervisor: Justin Cunningham, Summer 2014.

Research Project Supervisor: Matthew Lutze, Fall 2015.

Undergraduate Student Advisor: 15 advisees as of Fall 2022.

Pomona College, Department of Computer Science

Research Project Supervisor: Grant Stafford, Fall 2012, Spring 2013.

Research Interests

Social Network Analysis, Cross-cultural Social Computing, Web Structure Analysis, Link Analysis, Random Graph Modeling, Digital Humanity, Multilingual Web Mining, Data Mining, Network Routing Algorithms, Human Computer Interaction, Sound Design.

Research

Journal Papers

Glenn-Milo Santos et al., "Economic, Mental Health, HIV Prevention and HIV Treatment Impacts of COVID-19 and the COVID-19 Response on a Global Sample of Cisgender Gay Men and Other Men Who Have Sex with Men", in *AIDS and Behavior*, vol. 25, no.2, pp. 311-321, February 2021.

Louis Yu, Sitaram Asur and Bernardo A. Huberman, "Dynamics of Trends and Attention in Chinese Sina Weibo Media," in *American Behavioral Scientist*, vol. 59, no.9, pp. 1142-1156, August 2015.

Louis Yu and Valerie King, "The Evolution of Friendships in Chinese Online Social Networks," in the *Journal of Social Computing and Cyber-Physical Systems*, vol.1, no.2, pp.180-205, December, 2011.

Conference Papers

Josephine Bierbaum, Melissa Lynn and Louis Yu, "Utilizing Pattern Mining and Classification Algorithms to Identify Risk for Anxiety and Depression in the LGBTQ+ Community During the COVID-19 Pandemic, in *Companion Proceeding of the Web Conference 2022 (WWW'22)*, pp.663-672, April, 2022.

Erik Lamontagne et al., "COVID-19 pandemic increases socioeconomic vulnerability of LGBTI+ communities and their susceptibility to HIV, in *Proceeding of the 2020 (Virtual) AIDS conference (AIDS 2020: Virtual)*, July 6 - 10, 2020

Louis Yu, Anupriya Ankolkar, and Thomas Sandholm, "Evaluating Mobile Experiences: Radio On-the-Go," in *Proceeding of the 9th EAI International Conference on Mobile Computing, Applications and Services (MobiCASE2018)*, March, 2018.

Grant Stafford and Louis Yu, "An Evaluation of the Effect of Spam on Twitter Trending Topics," in *Proceeding of the 2013 International Conference on Social Computing (SocialCom2013)*, pp.373-378, September, 2013.

Anupriya Ankolkar, Thomas Sandholm and Louis Yu, "Play it by Ear: Evaluating Music for Discovering Places," in *Proceeding of the 2013 ACM SIGCHI Conference on Human Factors in Computing Systems (CHI 2013)*, April, 2013.

Louis Yu, Sitaram Asur and Bernardo A. Huberman, "Artificial Inflation: The Real Story of Trends and Trend-setters in Sina Weibo," in *Proceeding of the 2012 ASE/IEEE International Conference on Social Computing (SocialCom2012)*, pp.514-519, September, 2012.

Louis Yu, Sitaram Asur and Bernardo A. Huberman, "Artificial Inflation: The True Story of Trends in Sina Weibo," in *Proceeding of the 1st SDM Workshop on Dynamic Network Analysis (DNA-SDM2012)*, April, 2012.

Louis Yu, Sitaram Asur and Bernardo A. Huberman, "What Trends in Chinese Social Media," in *Proceeding of the 5th ACM workshop on Social Network Mining and Analysis (SNAKDD2011)*, August, 2011.

Louis Yu and Valerie King, "The Evolution of Friendships in Chinese Online Social Networks," in Proceeding of the 2nd International Conference on Social Computing (SocialCom2010), pp.20-24, September, 2010.

Valerie King, Louis Yu, and Yan Zhuang, "Guanxi in the Chinese Web," in Proceeding of the IEEE International Conference on Computational Science and Engineering (SocialCom2009), vol.4, pp.9-17, 2009.

(winner: best paper award)

Valerie King, Louis Yu, and Yan Zhuang, "Guanxi in the Chinese web - a Study of Mutual Linking," in Proceeding of the 17th International Conference on World Wide Web (WWW2008), pp.1161-1162, 2008.

(winner: best poster award)

Louis Yu, Kin Fun Li, and Weibin Liao, "A Study of Chinese Web Characteristics and Their Implications on Web Search," in Proceeding of the 1st International Multi-Symposiums in Computer and Computational Sciences (IMSCCS2006), vol.2, pp.468-474, 2006.

Louis Yu, Kin Fun Li, and Eric G. Manning, "The Adaptability of English Based Web Search Algorithms to Chinese Search Engines," in Proceeding of the 8th Asia Pacific Web Conference (APWeb2006), vol.3841, pp.402-413, 2006.

Louis Yu, Eric G. Manning, and Kin Fun Li, "An Adaptive and Systematic Approach for Service Level Agreements," in Proceeding of the 1st International Workshop on Network Architecture and Service Models (NASM2005), pp.125-128, 2005.

Louis Yu, Eric G. Manning, and Kin Fun Li, "Heuristic Approaches to Service Level Agreements in Packet Networks," in Proceeding of the 1st International Workshop on Internet and Network Economics (WINE2005), vol.3828, pp.1003-1012, 2005.

Professional Activities

Invited Talks

"Evaluating Mobile Experiences: Radio On-the-Go"

Gustavus MCS Department, Saint Peter, Minnesota, May 14, 2018.

"Characteristics of Chinese Online Social Networks"

Saint Peters Lions Club, Saint Peter, Minnesota, May 13, 2015.

"Characteristics of Chinese Online Social Networks"

Twitter, San Francisco, California, May 25, 2012.

"Characteristics of Chinese Online Social Networks"

PARC (Palo Alto Research Center), Palo Alto, California, May 31, 2011.

"Characteristics of Online Social Networks"

Nokia Research, Beijing, China, November 2, 2010.

"The Adaptability of English Based Web Search Algorithms to Chinese Search Engines"

Microsoft Research Silicon Valley, Mountainview, California, July 24, 2006.

Conference Presentations

"Impact of COVID-19 on the HIV care continuum: Results from a global survey"

APHA's 2020 Virtual Annual Meeting and Expo, October 24-28, 2020

"Evaluating Mobile Experiences: Radio On-the-Go"

The 9th EAI International Conference on Mobile Computing, Applications and Services (Mobi-CASE2018), Osaka, Japan, March 1, 2018.

"An Evaluation of the Effect of Spam on Twitter Trending Topics"

The 2013 International Conference on Social Computing (SocialCom2013), Washington D.C., September 9, 2013.

"What Trends in Chinese Social Media"

The 5th ACM Workshop on Social Network Mining and Analysis (SNAKDD2011), San Diego, CA, August 21, 2011.

"Human Contact Prediction Using Contact Graph Inference"

The 3rd IEEE/ACM Conference on Cyber, Physical and Social Computing (CPSCoM2010), Hangzhou, China, December 20, 2010.

"Guanxi in the Chinese Web"

IEEE Conference on Social Computing (SocialCom2009), Vancouver, BC, August 29, 2009.

"Guanxi in the Chinese web - a Study of Mutual Linking"

The 17th International World Wide Web conference (WWW2008), Beijing, China, April 24, 2008.

"The Adaptability of English Based Web Search Algorithms to Chinese Search Engines"

The 8th Asia Pacific Web Conference (APWeb2006), Harbin, China, January 16, 2006.

"An Adaptive and Systematic Approach for Service Level Agreements"

The 1st International Workshop on Network Architecture and Service Models (NASM2005), Shanghai, China, November 23, 2005.

Media Performance

"Untitled", Performance by Joyce Lu, YT Wong, Louis Yu and Sam Posner, part of the Electric Lodge Max 10 Series, Venice Beach, CA, June 4, 2013.

Best Paper Award, 2009 IEEE International Conference on Social Computing (SOCIALCOM2009).

"Guanxi in the Chinese Web"

Best Poster Award, the 17th International World Wide Web conference (WWW2008).

"Guanxi in the Chinese web - a Study of Mutual Linking"

Press

Featured in Yahoo News (Yahoo Finance), January 15, 2012.

"Artificial Inflation: The True Story of Trends in Sina Weibo "

Featured in Souhu News (in Chinese), January 25, 2012.

"Artificial Inflation: The True Story of Trends in Sina Weibo "

Featured in the Financial Times, "The Intriguing Evolution of China's Twitter", July 14, 2011.

"What Trends in Chinese Social Media"

Featured in the Guardian (UK), "Weibo: The Chinese Twitter That Dwarfs Twitter", July 15, 2011.

"What Trends in Chinese Social Media"

Featured in the Technology Review (published by MIT), July 22, 2011.

"What Trends in Chinese Social Media"

Featured in the Wallstreet Journal (China Realtime Report), December 15, 2008.

"Guanxi in the Chinese web - a Study of Mutual Linking"