Hy Truong Son

Website: http://people.inf.elte.hu/hytruongson/ Email: hytruongson@uchicago.edu

Research Interest Machine Learning

Education

The University of Chicago September 2016 - July 2021 (expected)
Illinois, USA
PhD. Computer Science
Advisor: Prof. Risi Kondor
Research topics: Kernel methods, graph kernels, graph neural networks

Eötvös Loránd University September 2013 - July 2016
Budapest, Hungary
BSc. Computer Science
GPA: **4.98/5** (in Hungary scale), **3.98/4** (in US scale)
Award: First-class Graduation Honour
Sponsor: Stipendium Hungaricum Full Scholarship from the Government of Hungary

Work Experience

Google Inc. **Software Engineer Intern**
Security and Privacy, Chicago Office June 2017 – September 2017
Main project:

- Tasks: Analyse series of Googlers' accesses of sensitive data to detect anomalous behaviours from internal actors. Replace the daily analysis by a real-time analysis to reduce the latency of the current continuous pipeline.
- Challanges: Integrate with the existing Google's infrastructure, learn and use multiple Google's technologies such as Bigtable and Flume.
- Result: Successfully tested with artificial generated data that simulates the working pipeline in one year.

Additional project: Apply Machine Learning and statistical models to evaluate and cluster data access logs in Google distributed systems. Result: Proposed a new robust and efficient likelihood estimation model in finding patterns of users data.

MPCS 53111 - Machine Learning **Teaching Assistant**
Location: The University of Chicago March 2017 – June 2017
Instructor: Prof. Amitabh Chaudhary
Website: https://mpcs-courses.cs.uchicago.edu/2015-16/spring/courses/53111

CMSC 25400 - Machine Learning **Teaching Assistant**
Location: The University of Chicago January 2017 – March 2017
Instructor: Prof. Risi Kondor
Website: http://people.cs.uchicago.edu/ risi/cmsc25400.html

CMSC 22600 - Compilers for Computer Languages **Teaching Assistant**
Location: The University of Chicago September 2016 – December 2016
Instructor: Prof. John Reppy
Website: https://www.classes.cs.uchicago.edu/archive/2016/fall/22600-1/

Neural Information Processing Group **Undergraduate Research Student**
Location: Eötvös Loránd University April 2014 – March 2016
Website: http://nipg04.inf.elte.hu/
Working with Prof. Lőrincz András on facial analysis and sparse coding learning algorithms.

Publications

NIPS 2017: Generalized Steerable Convolutional Networks Spring 2017
Submitted to Conference on Neural Information Processing Systems 2017. Developed a custom Deep Learning framework in C++ that supports dynamic computation graphs.

Thesis: Semi-supervised Adaptive Facial Tracking Method Spring 2015
1^{st} position in the Information Technology section at the 32^{nd} National Conference of the Students' Scientific Association.

Thesis: http://people.inf.elte.hu/hytruongson/OTDK-Thesis-2015.pdf
Presentation: http://people.inf.elte.hu/hytruongson/OTDK-Presentation-2015.pdf
Video talk: http://www.inf.u-szeged.hu/otdk2015/sites/default/files/video/Jel_2/_JEL2_3.mp4

Poster: Fast Estimation of the Kernel Group LASSO Summer 2015
Machine Learning Summer School, Kyoto University
Poster: http://people.inf.elte.hu/hytruongson/Kyoto-2015.pdf

Awards

University Unrestricted PhD Fellowship Autumn quarter 2017
Awarded by the graduate committee at the University of Chicago.

First-class Graduation Honour Class of 2016
Awarded to the highest GPA achiever by Faculty of Informatics at the Eötvös Loránd University.

The title of Excellent Student of the Faculty Academic year 2014 - 2015
Awarded to BSc. students of the Faculty of Informatics with outstanding academic performance and scientific activity at the Eötvös Loránd University.

Stipendium Hungaricum Full Scholarship September 2013 - July 2016
Awarded by the Government of Hungary that covers tuition fee and living expenses.

First position at National Conference of Students' Scientific Association April 2015
Thesis: *Semi-supervised Adaptive Facial Tracking Method.*

Morgan Stanley Scholarship Academic year 2014 - 2015
Amount: 75,000 Hungarian Forints.

1st place at Hungarian ACM Programming Contest October 2015
Team ELTE-Sparrows solved 9/10 problems, ranked 1 out of 35 teams nationwide.

The 2015 ACM ICPC Central Europe Regional Contest November 2015
Team ELTE-1 achieved Honorable Mention in Zagreb, Croatia.

2nd place at Hungarian ACM Programming Contest October 2014
Team ELTE-UFMG-UFPB solved 5/10 problems, ranked 2 out of 33 teams nationwide.

The 2014 ACM ICPC Central Europe Regional Contest November 2014
Team ELTE-2 achieved Honorable Mention in Krakow, Poland.

7th place at ACM ICPC Asia Regional Programming Contest November 2012
Team Discrete Math achieved Consolidation prize, ranked 7 out of 59 teams in Asia.

Special prize at NAPROCK 4th International Programming Contest 2012
Location: Omuta, Japan

Silver Cup at Vietnam Olympic of University Students in Informatics 2012
Location: Hanoi, Vietnam

2nd prize at National Excellent High School Student Contest in Informatics 2011
Location: Hanoi, Vietnam

Qualifications

Programming Languages: C/C++, Java, Matlab, Python, Haskell, Ada, Pascal, SQL, PL/SQL, HTML/CSS.

Libraries: STL, OpenGL, Theano, Lasagne, LaTeX.

Tools: Netbeans, Eclipse, Codeblocks, Dev-C++, Microsoft Visual Studio, Microsoft Office.