







Yanbo Xu

Ph.D. Student
Georgia Institute of Technology

CONTACT ME

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 266 Ferst Drive,
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EDUCATION

2017 – Present
PhD Student in Machine Learning
Georgia Institute of Tech.

2015 – 2016
PhD Student in Computer Science
Johns Hopkins Univ.

2010 – 2013
PhD Student in Language Tech.
Carnegie Mellon Univ.

2008 – 2010
M.S in Applied Math & Statistics
Univ. of Minnesota Duluth

2000 – 2006
M.S. & B.S. in Computer Science
Harbin Institute of Tech.
China

SUMMARY OF MY RESEARCH

Broadly, my research interests are in statistical machine learning (ML). My current research focuses on learning from large scale clinical time series data for making individualized predictions and recommendations in healthcare. I started my research as a graduate student in the School of Computer Science at Carnegie Mellon. I worked alongside Prof. Jack Mostow on applications of ML in personalized tutoring systems. After taking a brief leave of absence when Jack retired, I resumed my PhD study at Johns Hopkins with Prof. Suchi Saria and presently at Georgia Tech with Prof. Jimeng Sun, working on cutting-edge ML algorithms for healthcare. My research topics include but are not limited to Time Series Analysis, Deep Modeling, Bayesian Modeling, Causal Inference, Dynamic Decision Making and Scalable Inference.

PROFESSIONAL EXPERIENCE

2014 – 2015
Visiting Scholar at Univ. of California Berkeley
Scaled up student modeling to MOOC platform edX.

2006 – 2008
Software Engineer at Lenovo Group Ltd., China
Developed Information Integration System for CCB bank.

SELECTED PUBLICATIONS

1. RAIM: Recurrent Attentive and Intensive Modeling of Multimodal Continuous Patient Monitoring Data

Xu, Y., Biswal, S., Deshpande, S., Maher, K., & Sun, J.
KDD, 2018

2. Bayesian Estimation of Individualized Treatment-Response Curves in Populations with Heterogeneous Treatment Effects

Xu, Y., Xu, Y., & Saria, S.
JMLR [Accepted with minor revision]



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3. Predicting Changes in Pediatric Medical Complexity using Large Longitudinal Health Records

Xu, Y., Bahador, M. T., Searles, E., Thompson, M., Tejedor-Sojo, J., & Sun, J.
AMIA, 2017

4. A Non-parametric Bayesian Approach for Estimating Treatment-Response Curves from Sparse Time Series

Xu, Y., Xu, Y., & Saria, S.
MLHC. JMLR W&CP, 2016

5. Comparison of methods to trace multiple subskills: Is LR-DBN best?
Xu, Y., & Mostow, J.

EDM, 2012 [*Best Student Paper Award*]

AWARDS AND HONORS

2018 Google Summer of Code (GSoC)

Developer in R project for statistical computing

2012 Best Student Paper Award

The 5th International Conf. of Educational Data Mining (EDM)

2010 Outstanding Graduates

Department of Math and Statistics, Univ. of Minnesota Duluth

2010 Data Science Summer Institute Fellowship

University of Illinois Urbana Champaign

2009 NAACL Scholarship Award

Johns Hopkins HLT Summer School

PROGRAMMING SKILLS

Skilled at C/C++ under Unix/Linux, Python, Pytorch, Perl
Capable of Matlab, R, SQL, BUGs/STAN, Java

HOBBIES

Drawing and Yoga are FUN!