

An (Informal) Ad for Ph.D. Positions

This is Hua Sun. I will join University of North Texas (UNT) as an assistant professor in Fall 2017. I plan to add 2 new PhD students to my group. The positions¹ are available starting from Spring 2018. Strong mathematical background is required.

About My Research: My research interests include information theory and its applications to communications, networking, privacy, security and storage. In particular, I will focus on the communication and computation efficiency of privacy and large-scale learning systems. For privacy related problems, you could get an idea by checking my recent papers, available at <https://webfiles.uci.edu/huas2/pubs.html>. For a (somewhat old) video presentation, see <https://webfiles.uci.edu/huas2/papers/spir.mov>. For learning related problems, the technical problem could be called coding for distributed computing. I have not published any paper on this topic (you could do a survey by yourself). In general, for more details on me, please visit <https://webfiles.uci.edu/huas2/index.html>.

Remark: My work is generally regarded as “Theoretic”, a word I am reluctant to use. The reason is that to my experience, at least when I was a undergraduate at BUPT, my understanding of ‘theory’ is completely different from my current understanding (mainly due to the fact that in China, we do not do theory a lot). To give you a rough idea, I would say that in your undergraduate education, the courses are about *how things work* and if you are interested in *why things work and what is the best that can be done*², then theory is a good fit for you.

End: If you are interested, drop me an email with your CV at shbupt@gmail.com or hua.sun@unt.edu. Thanks.

¹By default, the positions contain financial aid.

²For example, in digital communication, why do we use different modulation schemes? As an another example, in computer networks, is it a must to use CSMA to share the channel?