

---

# Wang, Gang

Lab of New Generation Network  
Department of Electronic Engineering,  
Tsinghua University, Beijing, 100084, P.R.China

Telephone: +86-1590-1039-738  
Email: wanggang1107@gmail.com  
Homepage: <http://www.net-glyph.org/~wanggang>

## OBJECTIVE

---

To enroll into a Ph.D. program with focus on computer networking

## EDUCATION

---

Sep.2006- B.E. in Electronic Engineering, Tsinghua University

Jul.2010(expected) GPA: 89.1/100, 4<sup>th</sup> in class

## PUBLICATIONS

---

Oct.2009 **Gang Wang**, Shining Wu, Guodong Wang, Beixing Deng, Xing Li, *Experimental Study on Neighbor Selection Policy for Phoenix Network Coordinate System*, In *Proc. of 2009IEEE International Workshop on Peer-To-Peer Networking (P2PNet'09)*, St.-Petersburg, Russia, Oct. 2009 ( <http://www.net-glyph.org/~wanggang/wang09.pdf> ).

## ACADEMIC RESEARCH

---

### ● Networking Related Research

May.2009-Present *Experimental Study on Network Coordinate System* **Research Assistant**  
**NSF of China, Project No.60473087, No.60703052, No.60850003**

- Study the neighbor selection policies for Phoenix Network Coordinate System.
- Propose the Phoenix NCS with Hybrid neighbor selection policy which adopts both distant hosts and close hosts as reference neighbors.
- Conduct extensive experiments on PlanetLab and King to confirm the better performance of Hybrid based NCS in the application of Overlay Multicast compared with the original one.

Jul.2009-Aug.2009 *RGPS: Web Service Discovery and Composition* **Research Intern**  
**National Basic Research Program of China (973 Program), Project No.2007CB310806**

- Design a platform based on a RGPS-WSDL model for web service registration and management, which is part of Demo System of 973 program
- Develop the Hypercube searching engine in the platform, acting as the test bed for further research on P2P based SOA.

Sep.2009-Present *uSD-based Mobile Sink Development* **Research Intern**  
**Nokia Research Center (NRC) Beijing, China**

- Establish the test bed of wireless sensor network with XMesh protocol
- Design the communication middleware for uSD-based Mobile Sink

### ● Math and Theoretical Research

May.2009 *Generalized Correlation Function Based Pitch Determination Algorithm*

- Propose a new algorithm for pitch determination based on the concept of generalized correlation function, which introduces a nonlinear kernel function.
- Conduct simulations for a single vowel and a benchmark database test to confirm its better resolution compared with the conventional correlation methods ( such as ACF)

Mar.2009 *Research on Two-dimensional narrow-band Gaussian process*

- Derivate the Two-dimensional PDF for narrow-band Gaussian process under the

