

# Jiaming WANG

462 Coordinated Science Laboratory  
1308 West Main Street  
Urbana, IL 61801

[jw27@illinois.edu](mailto:jw27@illinois.edu)  
<http://jw27.web.engr.illinois.edu>

## RESEARCH INTEREST

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Wireless networking, Communication, Decoding

## EDUCATION

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**University of Illinois at Urbana-Champaign** 09/2017-*Present*  
Ph.D. Student, Electrical and Computer Engineering GPA: **4.00/4.00**  
Advisor: *Haitham Al-Hassanieh*

**University of Science and Technology of China** 09/2013-07/2017  
B.E., Information Security GPA: **3.98/4.30**

## PUBLICATIONS

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**Many-to-Many Beam Alignment in Millimeter Wave Networks**  
Suraj Jog, *Jiaming Wang*, Junfeng Guan, Thomas Moon, Haitham Hassanieh,  
Romit Roy Choudhury  
NSDI, February 2019.

**Ghostbuster: Detecting the Presence of Hidden Eavesdroppers**  
Anadi Chaman, *Jiaming Wang*, Jiachen Sun, Haitham Hassanieh, Romit Roy Choudhury  
ACM MobiCom, Oct 2018.

## POSTERS

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**Enabling Dense Spatial Reuse in mmWave Networks**  
Suraj Jog, *Jiaming Wang*, Haitham Hassanieh, Romit Roy Choudhury  
poster, ACM SIGCOMM 2018.

## PROJECTS

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**Molecular Communication** 07/2018-*Present*  
Studied diffusion properties of molecular channel  
Decoded molecular OOK signal for single transmitter and interfering transmitters  
Deployed a macroscale aqueous testbed with advection for verification  
SYNRG, UIUC

**Detecting hidden WiFi eavesdroppers** 04/2018-10/2018  
Detected passive eavesdroppers in WiFi band  
Separated eavesdropper leakage hidden in normal transmitted packets  
Deployed a testbed with USRP and commercial WiFi cards  
SYNRG, UIUC

**MAC Protocols for mmWave Networks** 08/2017-02/2019  
Designed a MAC protocol for mmWave WLANs with spacial reuse  
Deployed a testbed to demonstrate 5.8x gain over 802.11ad  
SYNRG, UIUC

## TEACHING EXPERIENCE

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TA, CS/ECE 374: Introduction to Algorithms & Models of Computation      SPRING 2019

## AWARDS AND HONORS

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ACM SIGCOMM'18 Student Travel Grant      2018  
GUO Moruo Scholarship (top 1.5%), USTC      2016  
China National Scholarship (top 1.5%)      2015  
Outstanding Student Scholarship, USTC      2014, 2015, 2016

## COMPUTER SKILLS

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Programming: C, C++, Java,  $\LaTeX$   
Software: Matlab, NS-3  
Hardware: USRP, Arduino, LoRa

## RELEVANT COURSES

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### **Wireless Networking**

Wireless Networks  
Advanced Wireless Networks and Sensing Systems

### **Communications**

Random Process  
Information Theory  
Detection and Estimation Theory

### **Miscellaneous**

Algorithms  
Machine Learning for Signal Processing

## MEMBERSHIP AND AFFILIATIONS

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Students' Chorus of USTC      09/2013-07/2017  
Fang Cao Young Volunteers Association of USTC      09/2013-07/2017