# WEI SUN

CSE Department, The Ohio State University, 2015 Neil Ave, Columbus, OH 43210

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## EDUCATION

**The Ohio State University, Columbus**                 *August 2016 - Present*
Ph.D. in Computer Science and Engineering

**Shanghai Jiao Tong University, Shanghai**                 *September 2013 - March 2016*
M.S. in Computer Science and Technology

**Anhui Science and Technology University, Anhui**                 *September 2009 - June 2013*
B.S. Computer Science and Technology

## PUBLICATIONS

- Vedula, Nikhita, **Wei Sun**, Hyunhwan Lee, Harsh Gupta, Mitsunori Ogihara, Joseph Johnson, Gang Ren, and Srinivasan Parthasarathy. "Multimodal Content Analysis for Effective Advertisements on YouTube." In Data Mining (ICDM), 2017 IEEE International Conference on, pp. 1123-1128. IEEE, 2017.

- **Wei Sun**, Yanmin Zhu, Lionel M. Ni, and Bo Li. "Crowdsourcing Sensing Workloads of Heterogeneous Tasks: A Distributed Fairness-Aware Approach." In Parallel Processing (ICPP), 2015 44th International Conference on, pp. 580-589. IEEE, 2015.

- **Wei Sun**, Jiadi Yu, and Tong Liu. "A distributed spectrum sharing algorithm in cognitive radio networks." In Parallel and Distributed Systems (ICPADS), 2014 20th IEEE International Conference on, pp. 510-517. IEEE, 2014.

- Zhu, Yanmin, **Wei Sun**, Jiadi Yu, Tong Liu, and Bo Li. "Distributed spectrum sharing in cognitive radio networks: A pricing-based decomposition approach." International Journal of Distributed Sensor Networks 10, no. 11 (2014): 262137.

## RESEARCH EXPERIENCE

**Communication Systems and Networking Research Group**                 **The Ohio State University**
Advisor: Kannan Srinivasan                 *September 2017-Present*

- **Hybrid WiFi and Power Line Communication for Home Networking**

    - Designing a new framework for power line communication

    - Analyzing the performance of hybrid WiFi and power line communication system

- **Low Power Backscatter Networking**

    - Using RFID to do sensing and communication (vehicular localization and gesture recognition)

**Data Mining Lab**                 **The Ohio State University**
Advisor: Srinivasan Parthasarathy                 *Jannuary 2017-May 2017*

- Multimodal data analysis of advertisements on YouTube

    - Analyzing advertizements' recommendation on YouTube

    - Text, speech and video data fusion with deep neural network

Networking Research Lab — **Shanghai Jiao Tong University**
Advisor: Yanmin Zhu — *September 2013- March 2016*

- **Resource Allocation in Cognitive Radio Network**
  - Analyzing cognitive radio networks
  - Formulating a model to solve the spectrum allocation between primary users and secondary users

- **Resource Allocation in Mobile Crowdsourcing**
  - A classical architecture of crowdsourcing system is formulated
  - Formulating a model to solve the sensing tasks allocation in mobile crowdsourcing

## TEACHING EXPERIENCE

- **Graduate Teaching Assistant** — **Shanghai Jiao Tong University**
  Computer Architecture — *Sept.2014-Jan.2015*

- **Graduate Teaching Assistant** — **The Ohio State University**
  CSE 3521: Survey of Artificial Intelligence *I* — *Aug.2016-May.2017*

## WORK EXPERIENCE

**Software Engineering Intern** — Apr. 2016-June 2016
Accelops Inc.

## AWARDS

- 2013 Excellent Undergraduate Award Anhui Science and Technology University
- 2010 Notional Encouragement Scholarship Department of Education Anhui Province China
- 2013-2016 Graduate Scholarship Shanghai Jiao Tong University

## PROFESSIONAL ACTIVITIES

- ACM IMC 2019 Shadow PC Committee