

# Yubin Duan – Résumé

---

<b>Address</b>	1224 West Master Street Philadelphia, PA, USA, 19122	<b>Ethnicity</b>	Asian
<b>Citizenship</b>	Chinese	<b>Mobile Phone</b>	+1 (215) 715 7330
		<b>Email</b>	yubin.duan@temple.edu

## Education

- 2017 - Temple University**  
**Ph.D.** in Computer and Information Science (expected around 2022)  
Department of Computer & Information Science
- 2013-2017 University of Electronic Science and Technology of China**  
**B.S.** in Mathematics and Physics  
Yingcai Honors College (School of Honor, for top undergraduates)  
**GPA:** 3.98/4.00 (90.30/100)

## Research Experience

- Aug. 2017 - Present** - Research Project, Optimal Schedule Design for On-demand Transportation Systems  
*Advised by Prof. Jie Wu*
- On-demand transportation systems, such as car/bike-sharing systems, are typical representatives of the sharing economy and shared mobility. As they rising with bloom of sharing economy, more and more users are participated in, and therefore designing an optimal schedule for the large-scale system becomes a key issue. Through this project, we try to optimize the scheduling problem by combining the graph algorithms with big data technologies.
- Dec. 2015 - Feb. 2016** - Research Project, Visualization of Hierarchical Summarization Algorithms of Large Networks  
*Advised by Prof. Junming Shao. Funded by Ministry of Education of the P.R.China*
- This project is one part of *Designing a Hierarchical Summarization Algorithms of Large Networks* and it aims to visualize each layer of the hierarchical summarized networks.
- Learned Attractor algorithm which is one efficient algorithm created by prof. Junming Shao to find clusters in large social networks.
  - Designed a program to visualize hierarchical summarized networks with Python.

## Honors and Awards

- Jun. 2017 Outstanding Undergraduate Graduation Thesis of UESTC  
Dec. 2016 **First-class**, People's Scholarship of UESTC (for top 5% undergraduates)  
Dec. 2015 **First-class**, People's Scholarship of UESTC  
Aug. 2015 **Second Prize**, 6th China Undergraduate Physics Tournament  
Dec. 2014 **Second Prize**, National Spoken English Competition

## Teaching Experience

- 2018 Fall CIS 1166 Mathematical Concepts in Computing I (Teaching Assistant)  
2018 Spring CIS 3238 Software Design (Teaching Assistant)  
2017 Fall CIS 2168 Data Structures (Teaching Assistant)

## Publication

- **Y. Duan**, J. Wu, and H. Zheng, "A Greedy Approach for Vehicle Routing when Rebalancing Bike Sharing Systems," IEEE GLOBECOM 2018, Dec. 9-13, 2018. (to appear)
- **Y. Duan**, T. Mosharraf, J. Wu, and H. Zheng, "Optimizing Carpool Scheduling Algorithm through Partition Merging," IEEE ICC 2018, Kansas City, MO, May 2018.

## Extracurricular Activity

- Sep. 2014 - Jun. 2015 Vice president, Microsoft Technology Club at UESTC