

Bang (Benz) Tran

<https://cs.umb.edu/~bangtqh>
<https://www.linkedin.com/in/bangtqh>

Email : bang.tran001@umb.edu
bangtqh@gmail.com
Cell phone : +1-617-639-xxxx
Updated: February 6, 2023

EDUCATION

- **University of Massachusetts Boston** Boston, MA
Ph.D. Computer Science (will graduate on August 2023) Jan. 2019 – Aug. 2023
- **Vietnam National University, Ho Chi Minh City** Ho Chi Minh City, Vietnam
Master of Engineering in Software Engineering Sep. 2007 – Dec. 2009
- **Vietnam National University, Hanoi** Hanoi, Vietnam
Bachelor of Engineering in Information Technology Sep. 1997 – Jul. 2001

TEACHING EXPERIENCE

- **University of Massachusetts Boston (UMB)** Boston, MA
Teaching Fellowship July 17, 2022 – August 26, 2022
 - **CS220 - Applied Discrete Mathematics** : (Summer 2022)
- *Teaching Assistant* Aug. 2020 – Sept. 2022
 - **CS624 - Analysis of Algorithms**: (Fall 2022)
 - **CS210 - Intermediate Computing with Data Structure** : (Spring 2022)
 - **CS210 - Intermediate Computing with Data Structure** : (Spring 2021)
 - **CS110 - Introduction to Computing** : (Fall 2020)
- **University of Transport Communications, Campus 2 (UTC2)** Ho Chi Minh, Vietnam
Lecturer | Senior Lecturer Nov. 2003 – Dec. 2018
 - **Basis Informatics**: (Spring 2004 – 2010; Summer 2003 – 2018)
 - **Data Structure and Algorithms**: (Fall 2006 – 2012)
 - **Computer Network**: (Spring 2013 – 2018)
 - **Relational Database System**: (Fall 2013 – 2018)
 - **Designing Database System**: (Spring 2014 – 2018)
 - **Computer Architecture and System maintenance**: (Summer 2014 – 2018)
- **Hochiminh National University, College of Information Technology,** Ho Chi Minh, Vietnam
Visiting Lecturer Sep. 2016 – Dec. 2018
 - **Computer Network**: (Spring 2017 – 2018, Fall 2016 – 2018)
- **Lac Hong University** Dong Nai, Vietnam
Visiting lecturer Jan. 2005 – Dec. 2009
 - **Data Structure and Algorithms**: (Spring & Fall 2005 – 2009)
- **University of Transport Communications (UTC)** Ha Noi, Vietnam
Assistant lecturer Nov. 2002 – Oct. 2003
 - **Basis of Information computing**: (Fall 2002, Spring 2003)
 - **Relational Database System**: (Fall 2003)
 - **Web Programming**: (Fall 2003)
- **Hanoi Aptech Education Center** Ha Noi, Vietnam
Visiting lecturer Jul. 2002 – Dec. 2003
 - **PHP Web-programming**: (Spring & Fall 2002 – 2003)
 - **MySQL Database**: (Spring 2003)

WORKING EXPERIENCE (POSITIONS)

- **UTC2** Ho Chi Minh, Vietnam
Executive Director of Library and Information Center (Concurrent job) *Jul. 2016 – Dec. 2018*
 - **IT manager:** IT solutions coordinator for UTC Campus 2. Maintaining the IT infrastructures of the campus (including computer networks, wireless network, in-campus/out-campus data center).
 - **Employees manager:** Overseeing general conduct of the librarians and IT center employees.
- **UTC2** Ho Chi Minh, Vietnam
Head of Student Affairs and Propaganda Office (Concurrent job) *Apr. 2014 – Jun. 2016*
 - **UTC2 Spokesperson:** Be representative speaker of UTC2 to the Press.
 - **Advertisement services:** Executive advertisement activities for the campus.
 - **Commendation and Reward services:** Executive processing of commendation and reward activities for the faculties and staff members of the campus. Co-operating with the office's leaders from the Campus 1 (Hanoi).
 - **Student administration services:** Executor of managing in-campus/out-campus students(e.g., status certification, discipline process, commendation and reward processes, etc.)
- **UTC2** Ho Chi Minh, Vietnam
Deputy Head of Education Office (Concurrent job) *Oct. 2007 – Mar. 2013*
 - **Courses Coordinator:** Coordinating, Scheduling full-time and part-time classes (avg. 150 classes per semester).
 - **Admission services:** Full-time admission processes once per year; Part-time admission processes twice per year.
 - **Graduation services:** Once per year for full-time programs (all majors); twice per year for part-time programs.
 - **Student management services:** Coordinator of student managing in-campus/out-campus students(e.g., student status certification, student discipline process, student commendation and reward process, etc.)
- **Global Technology LLC** 35-37 Ly Thuong Kiet st., Hanoi, Vietnam
Software Engineer; Local Network Administrator *Jul. 2001 – Oct. 2002*
 - **Front-End Developer:** Creating API websites allowing users to submit information by storing into SQL Server, MySQL server.
 - **Local Network Administrator:** Co-Administrator the main server of the company; maintaining the company's website.

HONORS AND AWARDS

- ICC 2021 Best paper award (15/1881). *Jun. 2021*
- Erasmus Mundus Higher Education scholarship. *Jan. 2017*
- UTC's excellent lecturer award for the academic year 2015-2016. *Nov. 2016*
- UTC's excellent lecturer award for the academic year 2014-2015. *Nov. 2015*
- Commendation from the Chairman of Ho Chi Minh city People's Committee. *Apr. 2015*
- Commendation from Youth Union of Ho Chi Minh City. *May. 2014*
- UTC's excellent lecturer award for the academic year 2012-2013. *Oct. 2013*

PUBLICATIONS

1. Bang Tran, Youxiang Zhu, James W. Schwoebel, and Xiaohui Liang. "Exploiting Relevance of Speech to Sleepiness Detection via Attention Mechanism" – **Accepted** in ICC 2023 (presenting in May 2023).
2. Eli Kurtz, Youxiang Zhu, Tiffany Driesse, Bang Tran, John A. Batsis, Robert M. Roth, and Xiaohui Liang. "Early detection of cognitive decline using voice assistant commands" – **Accepted** in ICASSP 2023 (presenting in June 2023).
3. Bang Tran, Youxiang Zhu, Xiaohui Liang, James W. Schwoebel, Lindsay A. Warrenburg. "Speech Tasks Relevant To Sleepiness Determined With Deep Transfer Learning" In ICASSP 2022 - IEEE International Conference on Acoustics, Speech and Signal Processing.

4. Youxiang Zhu, Bang Tran, Xiaohui Liang, John Batsis, Robert Roth. "Towards Interpretability of Speech Pause in Dementia Detection using Adversarial Learning" In *ICASSP 2022 - IEEE International Conference on Acoustics, Speech and Signal Processing*.
5. Bang Tran, Shenhui Pan, Xiaohui Liang, and Honggang Zhang. "Exploiting Physical Presence Sensing to Secure Voice Assistant Systems." In *ICC 2021-IEEE International Conference on Communications*, pp. 1-6. IEEE, 2021.
6. Bang Tran, and Xiaohui Liang. "Exploiting peer-to-peer communications for query privacy preservation in voice assistant systems." *Peer-to-Peer Networking and Applications* 14, no. 3 (2021): 1475-1487.
7. Do, Thi Thu Hang, Bang Quang Hai Tran, and Quang Dieu Tran. "Movie indexing and summarization using social network techniques." *Vietnam Journal of Computer Science* 5, no. 2 (2018): 157-164.
8. Tuan Anh Nguyen, Quang Trung Le, Bang Quang Hai Tran, and Dang Van Huynh. "R-IoT: A Framework for IoTs Reconfiguration in Cloud." (2017).
9. Bang Q.H. Tran, Thi Hai Binh Nguyen, Phong Nha Tran, Thi Thanh Nga Tran, and Quang Dieu Tran. "Story-based multimedia analysis using social network technique." In *International Conference on Computer Science, Applied Mathematics and Applications*, pp. 95-106. Springer, Cham, 2017.

COURSE ACHIEVEMENTS (@ UMB)

- | | |
|--|---------------------|
| • CS720 / Logical Foundation of Computer Science (graded: A) | <i>Spring 2022</i> |
| • CS724 / Theory Of Algorithms (graded: A-) | <i>Fall 2021</i> |
| • IT443 / Network Security Administration (graded: A) | <i>Spring 2021</i> |
| • CS636 / Database Application Development (graded: A) | <i>Spring 2021</i> |
| • CS620 / Theory of Computation (graded: A-) | <i>Fall 2020</i> |
| • CS696 / Independent Study (graded: A) | <i>Fall 2020</i> |
| • CS681 / Object-Oriented Software Development (graded: A) | <i>Spring 2020</i> |
| • CS682 / Software Development Laboratory (graded: A) | <i>Spring 2020</i> |
| • CS624 / Analysis of Algorithms (graded: B+) | <i>Fall 2019</i> |
| • CS637 / Database-Backend Websites (graded: A) | <i>Fall 2019</i> |
| • CS646 / Computer Communication Networks (graded: A) | <i>Fall 2019</i> |
| • CS433 / Mobile Applications (graded: A) | <i>Fall 2019</i> |
| • CS670 / Artificial Intelligence (graded: A) | <i>Spring, 2019</i> |
| • CS697 / Special topic on Applied Cryptography (graded: A) | <i>Spring, 2019</i> |
| • CS680 / Object-Oriented Design and Programming (graded: A) | <i>Spring, 2019</i> |