What is it like to do research at CSUDH

Bin Tang
Associate Professor
Computer Science Department
CSUDH

My Life

- Born in 1973 in China
- Went to College in 1992
  - Nuclear Physics in Peking University, Beijing
- Came to the States in 1997
  - Stony Brook University (1997-2007)
    - Materials Science and Engineering, 1997-2000
    - Computer Science, 2000-2007
  - Wichita State University (2007-2011)
  - Azusa Pacific University (2011-2013)
  - CSUDH (2013-)

My family

My hobbies

My teaching

- CSC121
- CSC331
- CSC341/541
- CSC401/501
- CSC451/551
- CSC492
- CSC500, CSC521, CSC531, 582, 595

My Research

- Intersection at algorithm, data, and networking
  - Sensor networks, Internet of Things
  - Cloud computing, virtual machines
  - Software defined network, virtual function virtualization
  - Algorithmic flavor
- My research

My Goal as an Educator/Researcher

- Be a good teacher/researcher

- Inspire young minds

- Pass the passion

- Hope my students can be my colleagues some day ☺

Why Research?

- Curiosity to discover new knowledge

- Learn valuable life skills for life: professionalism, time management

- Promote a love of and confidence in reading, writing, analyzing, and sharing valuable information

Why Research?

- Gain a deeper understanding of the scientific process; develop research questions and test your hypotheses

- Get paid to get an advanced degree

- Publish your work, present at conferences, and travel

Conference Travel

- **DRE^2: Achieving Data Resilience in Wireless Sensor Networks: A Quadratic Programming Approach** [pdf].
  Shanglin Hsu, Yuning Yu, and Bin Tang
  Proceedings of the IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS 2020).

- **FT-VMP: Fault-Tolerant Virtual Machine Placement in Cloud Data Centers** [pdf], [youtube]
  Christopher Gonzalez and Bin Tang
  Proceedings of the International Conference on Computer Communications and Networks (ICCCN 2020).

- **PAM & PAL: Policy-Aware Virtual Machine Migration and Placement in Dynamic Cloud Data Centers** [pdf], [github]
  Hugo Flores, Vincent Tran, and Bin Tang
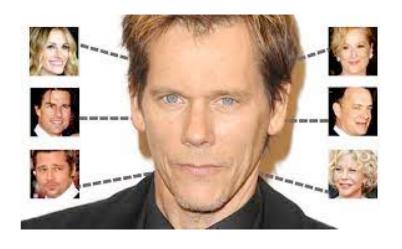 Proceedings of the IEEE International Conference on Computer Communications (Infocom 2020).

Why do Research at CSUDH?

- Many supporting programs
  - **CalBridge – CSU to UC Ph.D. programs**
  - LSAMP *(Louis Stokes Alliances for Minority Participation)*
  - CAHSI *(Computing Alliance of Hispanic-Serving Institutions)*
- Many caring faculties who have high expectations of our CSUDH students
- Well-defined doable problems

Six Degree of Separation

- Six degree of Kevin Bacon

- Four degree of Nobel

Jeffrey Ullman
2020 Turing Award

Any Questions?