

# Ruixiang Tang

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## EDUCATION

**Texas A&M University**  
Ph.D., Computer Science

**College Station**  
09/2019- present

**Tsinghua University**  
Bachelor of Science in Life Science  
Bachelor of Science in Automation  
Overall GPA 3.5/4.0

**Beijing, China**  
09/2014- 07/2016  
07/2016- 07/2019

## RESEARCH INTERESTS

- Explainable AI (XAI); Security of AI Systems; Fairness in Machine Learning

## INDUSTRY EXPERIENCE

- **Microsoft Research Asia (Research Intern)** 05/2019-07/2019
  - Interpretable Recommendation System. Mentor: Xiting Wang
  - Work based on Python
- **HUAWEI( SDE Intern at Software Analysis Lab)** 09/2018-05/2019
  - Intelligent R&D services, I am responsible for the analysis of JAVA code defect detection and repair services.
  - Work based on Java, MySQL.
- **12sigma company (SDE Intern)** 01/2018-09/2018
  - I am mainly responsible for the development of medical image algorithms, such as bone suppression.
  - Work based on Python, Matlab

## PUBLICATION

**Tang, R.**, Du, M., Liu, N., Yang, F., & Hu, X. (2020, August). **An embarrassingly simple approach for trojan attack in deep neural networks.** In *Proceedings of the 26th ACM SIGKDD International Conference on Knowledge Discovery & Data Mining* (pp. 218-228).

Lin, C., **Tang, R.**, Lin, D.D., Liu, L., Lu, J., Chen, Y., Gao, D. and Zhou, J., 2020, April. **Deep Feature Disentanglement Learning for Bone Suppression in Chest Radiographs.** In *2020 IEEE 17th International Symposium on Biomedical Imaging (ISBI)* (pp. 795-798). IEEE.

**Tang, R.**, Du, M., Li, Y., Liu, Z. and Hu, X., 2020. **Mitigating Gender Bias in Captioning Systems.** *arXiv preprint arXiv:2006.08315*. (Under Review)

Du, M., **Tang, R.**, weijie Fu and Hu, X., 2020. **An Embarrassingly Simple Approach to Bias Mitigation via Decorrelating Feature Influence.** (under review)

Liu, N\*, **Tang, R.\***, Fan Yang., and Hu, X., 2020. **Defense Against Explanation Manipulation**, \* equal contribution (Under review)

**Tang, R.**, Tushar, F.I., Han, S., Hou, R., Rubin, G.D. and Lo, J.Y., 2019, March. **Classification of chest CT using case-level weak supervision.** In *Medical Imaging 2019: Computer-Aided Diagnosis* (Vol. 10950, p. 1095017). International Society for Optics and Photonics.

Fu, W., Sharma, S., Smith, T., Hou, R., Abadi, E., Selvakumaran, V., **Tang, R.**, Lo, J.Y., Segars, W.P., Kapadia, A.J. and Solomon, J.B., 2019, March. **Multi-organ segmentation in clinical-computed tomography for patient-specific image quality and dose metrology.** In *Medical Imaging 2019: Physics of Medical Imaging* (Vol. 10948, p. 1094829). International Society for Optics and Photonics.

Lin, C., **Tang, R.**, Lin, D.D., Liu, L., Lu, J., Chen, Y., Gao, D. and Zhou, J., 2019, October. **Breast Mass Detection in Mammograms via Blending Adversarial Learning.** In *International Workshop on Simulation and Synthesis in Medical Imaging* (pp. 52-61). Springer, Cham.

**COMPETITIONS**

- Meritorious Winner in Interdisciplinary Contest In modeling 2018.(Top 10%)
- The Silver Medal of IGEM (International Genetically Engineered Machine) in 2017.
- The Gold Medal of Chinese Biology Olympia in Senior in 2012(ranked seventh).

**SKILLS**

- **Programming Languages:** Proficient in C++, Python, Intermediate in MATLAB, C# and Verilog.
- **Software Tools:** Proficient in TensorFlow, MATLAB.

**HONORS&AWARDS**

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|----------------------------------------------|------------------|
| • Technological Innovation Award(Top 10%)    | <b>2017-2018</b> |
| • Outstanding Freshman Scholarship (Top 10%) | <b>2014-2015</b> |
| • Academic Progress Award(Top 30%)           | <b>2015-2016</b> |

