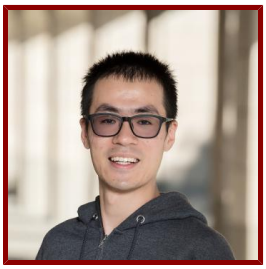
Stanford



Xianghao Zhan

- Ph.D. Student in Bioengineering, admitted Autumn 2019
- Masters Student in Bioengineering, admitted Spring 2020

Bio

HONORS AND AWARDS

- Winner of Stanford Intramural Volleyball League Division 1, Stanford University (2020/03/03)
- 2019 IET Cyber-systems and Robotics Research Article Contest. Second Prize. (Top 5 Awardee), IET Cyber-systems and Robotics (11/24/2019)
- 2018-2020 Zhebao-Ali Jike Award Project, Zhejiang University (1/2/2020)
- Stanford Departmental Fellowship, Stanford University (09/27/2019)
- Cambridge Trust International Scholarship, University of Cambridge (2/18/2019)
- Ten Most Preeminent Students of 2017, Zhejiang University (12/31/2017)
- Chu Kochen Scholarship, Zhejiang University (12/31/2018)
- Chinese National Scholarship, Ministry of Education of the People’s Republic of China (12/31/2016)
- Excellent Graduate of Zhejiang Province, Department of Education of Zhejiang Province (7/1/2019)
- First-level fellowship of Chinese Instrument and Control Society, Chinese Instrument and Control Society (4/28/2019)
- Winner of IET Present Around The World National Final 2019, Institute of Engineering and Technology(IET) (5/31/2019)
- Certificate of Test of English Major-Band 8(TEM8), Ministry of Education of the People's Republic of China (6/15/2019)
- Chu Kochen Honors College Preeminence Scholarship, Chu Kochen Honors College, Zhejiang University (12/20/2018)
- Chunhui Scholarship and Chunhui Star Honor, College of Control Science and Engineering, Zhejiang University (06/01/2019)
- Best Presenter, 2019 IEEE International Conference on Bioinformatics and Computational Biology (3/24/2019)

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

- Member, Chinese Automation Society (2018 - present)
- Member, Chinese Instrument and Control Society (2019 - present)

EDUCATION AND CERTIFICATIONS

- B. Eng, Zhejiang University , Automation (Control Science and Engineering), Summa Cum Laude (2019)
- B. Art, Zhejiang University , English Language and Literature, Summa Cum Laude (2019)
- Non-degree programme, University of Cambridge , Graduation Project on Acoustic Particle Trapping (2019)
- Non-degree programme, UCLA , Cross-disciplinary Scholars in Science and Engineering, Radiology and MRI (2018)

STANFORD ADVISORS

- Daniel Ennis, Doctoral (Program)

SERVICE, VOLUNTEER, AND COMMUNITY WORK

- Captain of Chu Kochen Honors College Men's Volleyball Team (December 12, 2016 - October 30, 2018)
- Leader of Chu Kochen International and Translation Workshop (September 1, 2018 - July 21, 2019)
- Teaching assistant at University of Washington/University of Wisconsin China Summer Lab (June 27, 2018 - July 10, 2018)
- Volunteer and organizer of AIESEC International Volunteer Project in Zhengzhou (July 1, 2016 - August 1, 2016)
- Volunteer at Ramsey County Library System in Minnesota (June 1, 2015 - July 10, 2015)
- Member at Zhejiang University Youth League (September 14, 2015 - September 2, 2016)
- Member at Chu Kochen Honors College Student Union (September 14, 2015 - September 1, 2016)
- “Big Data and New Development Motivation in Guiyang Province” Summer social practice and field trip (August 1, 2016 - August 15, 2016)
- Founder of ZML Lab-A Platform for the Publication of Science and Sharing of Researches (10/22/2019)
- Volunteer of Stanford Brain Day (2/27/2020 - 2/27/2020)
- Captain of Lightening Storm, Winner of Stanford Intramural Volleyball League Division 1-2020 (1/22/2020 - 3/3/2020)
- Cofounder of Case Crossover COVID-19 Science Communication Platform (3/23/2020)

PERSONAL INTERESTS

In my spare time, I love playing volleyball, badminton, tennis and singing. I have award-winning experiences respecting these four hobbies in my undergraduate life. You could find me if planning to play volleyball, beach volleyball, badminton and tennis or if you plan to go karaoke. Meanwhile, I am keen and passionate in languages. I love communicating with different people in English, doing C-E bilingual translation and I am currently learning Spanish for half a year. With these interests, I am really eager to make more friends here on Stanford Campus.

LINKS

- My linkedIn: https://www.linkedin.com/in/xianghao-sam-zhan-1140a616b/

Research & Scholarship

RESEARCH INTERESTS

- Brain and Learning Sciences
- Data Sciences
- Literacy and Language

Publications

PUBLICATIONS

- **An Optimized Deep Convolutional Neural Network for Dendrobium Classification Based on Electronic Nose** *Sensors and Actuators A: Physical*
  Wang, Y., Diao, J., Wang, Z., Zhan, X., Zhang, B., Li, N., Li, G.
  2020; 302
- **An electronic nose-based assistive diagnostic prototype for lung cancer detection with conformal prediction** *Measurement*
  Zhan, X., Wang, Z., Yang, M., Luo, Z., Wang, Y., Li, G.
  2020
- **Particle Trapping with Modulated Acoustic Wave** *2019 Chinese Automation Congress*
  Zhan, X., Li, N., Stevenson, A. C., Li, G., Hu, R.
  2019
- **Fast T1, T2 evaluation with machine learning for quantitative cardiac MRI** *2019 Annual Meeting of International Society of Magnetic Resonance in Medicine*
  Zhan, X., Shao, J., Hu, P.

ISMRM.2019

- **Feature Engineering in Discrimination of Herbal Medicines from Different Geographical Origins with Electronic Nose** *2019 IEEE 7th International Conference on Bioinformatics and Computational Biology*
  Zhan, X., Guan, X., Wu, R., Wang, Z., Wang, Y., Li, G.
  2019: 7
- **Discrimination between Alternative Herbal Medicines from Different Categories with the Electronic Nose** *SENSORS*
  Zhan, X., Guan, X., Wu, R., Wang, Z., Wang, Y., Li, G.
  2018; 18 (9)
- **NU-WAY, an Application of Numerical Methods in Campus Running Route Evaluation**
  Zhan Xianghao, Yang Xikai, Zhang Jianming, IEEE
  IEEE.2018: 798–803
- **Online conformal prediction for classifying different types of herbal medicines with electronic nose** *IET Doctoral Forum on Biomedical Engineering, Healthcare, Robotics and Artificial Intelligence 2018 (BRAIN 2018)*
  Zhan, X., Guan, X., Wu, R., Wang, Z., Wang, Y., Luo, Z., Li, G.
  IET Digital Library.2018: 8

PRESENTATIONS

- Fast T1, T2 Evaluation with Machine Learning for quantitative Cardiac MRI - International Society of Magnetic Resonance in Medicine(ISMRM) 2019 (May 12, 2019 - May 17, 2019)
- Feature engineering in discrimination of herbal medicines from different geographical origins with electronic nose. - IEEE 7th International Conference on Bioinformatics and Computational Biology (March 20, 2019 - March 21, 2019)
- Online conformal prediction for classifying different types of herbal medicines with electronic nose. - IET Doctoral Forum on Biomedical Engineering, Healthcare, Robotics and Artificial INtelligence 2018 (November 4, 2018 - 11/4/2018)
- Discrimination of alternative herbal medicine of different categories and origins with electronic nose. - 11th National University Student Innovation Forum (October 7, 2018 - October 12, 2018)
- Application of machine learning in deafness prediction with mitochondrial DNA mutations. - 5th National Undergraduates' Innovation Forum in Basic Medical Sciences (May 23, 2018 - May 27, 2018)