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Postdoctoral Scholar, Molecular and Cellular Physiology

Bio

PROFESSIONAL EDUCATION

- Ph. D., University of Pennsylvania , Bioengineering (2022)
- B. S., Nanjing University , Physics and Acoustics (2016)

STANFORD ADVISORS

- Miriam Goodman, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Segmentation-free measurement of locomotor frequency in *Caenorhabditis elegans* using image invariants.** *bioRxiv : the preprint server for biology*
Ji, H., Chen, D., Fang-Yen, C.
2024
- **Automated multimodal imaging of *Caenorhabditis elegans* behavior in multi-well plates** *BioRxiv*
Ji, H., Chen, D., Fang-Yen, C.
2024
- **A robotic system for automated genetic manipulation and analysis of *Caenorhabditis elegans*.** *PNAS nexus*
Li, Z., Fouad, A. D., Bowlin, P. D., Fan, Y., He, S., Chang, M. C., Du, A., Teng, C., Kassouni, A., Ji, H., Raizen, D. M., Fang-Yen, C.
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- **A proprioceptive feedback circuit drives *Caenorhabditis elegans* locomotor adaptation through dopamine signaling.** *Proceedings of the National Academy of Sciences of the United States of America*
Ji, H., Fouad, A. D., Li, Z., Ruba, A., Fang-Yen, C.
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- **Phase response analyses support a relaxation oscillator model of locomotor rhythm generation in *Caenorhabditis elegans*.** *eLife*
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- **Distributed rhythm generators underlie *Caenorhabditis elegans* forward locomotion.** *eLife*
Fouad, A. D., Teng, S., Mark, J. R., Liu, A., Alvarez-Illera, P., Ji, H., Du, A., Bhargoo, P. D., Cornblath, E., Guan, S. A., Fang-Yen, C.
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- **Pan-neuronal imaging in roaming *Caenorhabditis elegans*.** *Proceedings of the National Academy of Sciences of the United States of America*
Venkatachalam, V., Ji, N., Wang, X., Clark, C., Mitchell, J. K., Klein, M., Tabone, C. J., Florman, J., Ji, H., Greenwood, J., Chisholm, A. D., Srinivasan, J., Alkema, et al
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- **Effects of acoustic vibration on the reorientations of *C. elegans*** *Chinese Science Bulletin*
Zhang, Y., Ji, H., Luo, L., Guo, X., Tu, J., Zhang, D.
2016
- **Low intensity pulse ultrasound stimulate chondrocytes growth in a 3-D alginate scaffold through improved porosity and permeability.** *Ultrasonics*
Guo, G., Lu, L., Ji, H., Ma, Y., Dong, R., Tu, J., Guo, X., Qiu, Y., Wu, J., Zhang, D.
2015; 58: 43-52
- **Ultrasonic enhancement of the porosity of alginate scaffold** *ACTA PHYSICA SINICA*
Lu Lu, Ji Hong-Fei, Guo Ge-Pu, Guo Xia-Sheng, Tu Juan, Qiu Yuan-Yuan, Zhang Dong
2015; 64 (2)