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Bio

INSTITUTE AFFILIATIONS

- Member, Maternal & Child Health Research Institute (MCHRI)

STANFORD ADVISORS

- Katherine Ferrara, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Doppler-based assessment of boiling histotripsy-induced volumetric tissue liquefaction in vivo.** *Ultrasonics*
Song, M., Thomas, G. P., Khokhlova, V. A., Wang, Y., Totten, S. I., Sapozhnikov, O. A., Schade, G. R., Khokhlova, T.
2025; 156: 107775
- **Respiratory Motion Effects and Mitigation Strategies on Boiling Histotripsy in Porcine Liver and Kidney** *IEEE TRANSACTIONS ON ULTRASONICS FERROELECTRICS AND FREQUENCY CONTROL*
Ponomarchuk, E. M., Thomas, G. P. L., Song, M., Wang, Y., Totten, S., Schade, G. R., Khokhlova, V. A., Khokhlova, T. D.
2025; 72 (6): 837-846
- **Dynamic mode decomposition based Doppler monitoring of de novo cavitation induced by pulsed HIFU: an in vivo feasibility study.** *Scientific reports*
Song, M., Sapozhnikov, O. A., Khokhlova, V. A., Son, H., Totten, S., Wang, Y., Khokhlova, T. D.
2024; 14 (1): 22295
- **Dynamic Mode Decomposition for Transient Cavitation Bubbles Imaging in Pulsed High-Intensity Focused Ultrasound Therapy.** *IEEE transactions on ultrasonics, ferroelectrics, and frequency control*
Song, M., Sapozhnikov, O. A., Khokhlova, V. A., Khokhlova, T. D.
2024; 71 (5): 596-606
- **Histology-based quantification of boiling histotripsy outcomes via ResNet-18 network: Towards mechanical dose metrics** *ULTRASONICS*
Ponomarchuk, E., Thomas, G., Song, M., Krokhmal, A., Kvashennikova, A., Wang, Y., Khokhlova, V., Khokhlova, T.
2024; 138: 107225
- **Quantitative Assessment of Boiling Histotripsy Progression Based on Color Doppler Measurements.** *IEEE transactions on ultrasonics, ferroelectrics, and frequency control*
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