CURRICULUM VITAE

Yuli Wang
Ph.D. student
Department of Biomedical Engineering
Johns Hopkins University

Email: ywang687@jhu.edu
Web: https://yuliwanghust.github.io/
Phone: 805-443-8523

(a) Education & Training

Johns Hopkins University	Baltimore, MD	Biomedical Engineering	Ph.D., Now
University of California	Santa Cruz, CA	Electrical Engineering	M.S., 2021
Huazhong Univ. of Sci. & Tech.	Wuhan, CHN	Mechanical Engineering	B.S., 2018

(b) Research & Professional Experience

2021 – Present	Research Assistant, JHU, IACL Lab,
2019 – 2021	Research Assistant, UC Santa Cruz, RI Lab,
2018 – 2019	Research Assistant, Stanford University, MII Lab
2017 – 2018	Research Assistant, Huazhong University of Sci. & Tech.
2017.07 – 2017.09	Research Intern, Missouri University of Sci. & Tech.

(c) Publications (Google scholar)

Journal publications

1. **Wang, Yuli**, Ryan Herbst, and Shiva Abbaszadeh, Development and characterization of a modular readout design for a two-panel head and neck dedicated pet system based on czt detectors, IEEE Transactions on Radiation and Plasma Medical Sciences , 1–1 (2021).
2. **Wang, Yuli**, Li Tao, Shiva Abbaszadeh, and Craig Levin, Further investigations of a radiation detector based on ionization-induced modulation of optical polarization, Physics in Medicine & Biology **66**, 055013 (2021).
3. Peng Zhou, Zheng Liu, Hemmings Wu, **Wang, Yuli**, Yong Lei, and Shiva Abbaszadeh, Automatically detecting bregma and lambda points in rodent skull anatomy images, Plos one **15**, e0244378 (2020).
4. Mohan Li, **Wang, Yuli**, and Shiva Abbaszadeh, Development and initial characterization of a high-resolution PET detector module with DOI, Biomedical Physics & Engineering Express **6**, 065020 (2020).
5. Hengquan Zhang, **Wang, Yuli**, Jinyi Qi, and Shiva Abbaszadeh, Penalized maximum-likelihood reconstruction for improving limited-angle artifacts in a dedicated head and neck PET system, Physics in Medicine & Biology **65**, 165016 (2020).
6. Gregory Romanchek, **Wang, Yuli**, Harsha Marupudi, and Shiva Abbaszadeh, Performance of optical coupling materials in scintillation detectors post temperature exposure, Sensors **20**, 6092 (2020).
7. **Wang, Yuli**, Yingjie Li, Fei Yi, Junyu Li, Siwei Xie, Qiyu Peng, and Jianfeng Xu, Two-crossed-polarizers based optical property modulation method for ionizing radiation detection for positron emission tomography, Physics in Medicine & Biology **64**, 135017 (2019).

Peer-reviewed conference papers

1. **Wang, Yuli**, Ryan Herbst, and Shiva Abbaszadeh, Electronic noise characterization of a dedicated head-and-neck cancer PET based on CZT, in *Journal of Nuclear Medicine*, Vol. 62 (supplement 1) (Soc Nuclear Med, 2021).
2. **Wang, Yuli**, Ryan Herbst, and Shiva Abbaszedeh, Back-end readout electronic design and initial results: a head-and-neck dedicated PET system based on CZT, in *Medical Imaging 2021: Physics of Medical Imaging*, Vol. 11595 (International Society for Optics and Photonics, 2021) p. 1159510.
3. **Wang, Yuli** and Shiva Abbaszadeh, Detection sensitivity of optical property-based radiation detection for pet: refraction index modulation, in *2020 IEEE Nuclear Science Symposium and Medical Imaging Conference (NSS/MIC)* (2020) pp. 1–3.
4. **Wang, Yuli**, Li Tao, Craig S Levin, and Jianfeng Xu, Approaches to improving the detection sensitivity of optical modulation based radiation detection method for positron emission tomography, in *2019 IEEE Nuclear Science Symposium and Medical Imaging Conference (NSS/MIC)* (IEEE) pp. 1–3.
5. **Wang, Yuli**, Li Tao, Craig S Levin, and Jianfeng Xu, Investigation of optical property modulation based ionizing radiation detection method for PET: two-crossed-polarizers based method, in *2019 IEEE Nuclear Science Symposium and Medical Imaging Conference (NSS/MIC)* (IEEE) pp. 1–3.
6. **Wang, Yuli**, Zehao Li, and Jianfeng Xu, Investigation of pockels effect in optical property modulation-based radiation detection method for positron emission tomography, in *Medical Imaging 2019: Biomedical Applications in Molecular, Structural, and Functional Imaging*, Vol. 10953 (International Society for Optics and Photonics, 2019) p. 1095306.
7. **Wang, Yuli**, Yingjie Li, Longzhuang He, Pourya Shamsi, and Yahong Rosa Zheng, An energy-harvesting power supply for underwater bridge scour monitoring sensors, in *Nondestructive Characterization and Monitoring of Advanced Materials, Aerospace, Civil Infrastructure, and Transportation XII*, Vol. 10599 (International Society for Optics and Photonics, 2018) p. 105990H.

(d) Honors, Awards and Fellowships

1. IEEE Nuclear Science Symposium and Medical Imaging Conference Best Student Paper runners-up of 2021 (11/515 total applicants);
2. IEEE Nuclear Science Symposium and Medical Imaging Conference Trainee Grant Scholarship of 2019, 2020, 2021;
3. UCSC Student Cultivate Grant Award of 2021;
4. UCSC Graduate Student Travel Award of 2019, 2020;
5. Outstanding undergraduate award and First-Class academic scholarship for Huazhong University of Sci. and Tech. of 2018.

(e) Teaching Experience

1. Engineering Innovations for Medicine and Natural Sciences (Undergraduate), UCSC, 2021 Spring / TA

(f) Presentation

Annual meetings

1. IEEE NSS/MIC 2019, 2020, 2021
2. SPIE Medical Imaging 2018, 2019, 2021
3. SNMMI 2021

(g) Synergistic Activities

1. Manuscripts referee for *IEEE Sensors*, *Biomedical Physics & Engineering Express*.
2. Member of IEEE Eta Kappa Nu (HKN) and student instructor for UCSC HKN chapter.