CURRICULUM VITAE

Yuli Wang

Master student
Department of Electrical and Computer Engineering
UC Santa Cruz

Email: ywang812@ucsc.edu
Web: https://yuliwanghust.github.io/
Phone: 805-443-8523

(a) Education & Training

University of California	Santa Cruz, CA	Electrical Engineering	M.S., 2021
Huazhong University of Sci. & Tech.	Wuhan, CHN	Mechanical Engineering	B.A., 2018

(b) Research & Professional Experience

2019 – present	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**, 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).
2. 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).
3. 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).
4. 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).
5. Gregory Romanchek, **Wang, Yuli**, Harsha Marupudi, and Shiva Abbaszadeh, Performance of optical coupling materials in scintillation detectors post temperature exposure, Sensors **20**, 6092 (2020).
6. **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 (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**, 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.
4. **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.
5. **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.
6. **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 Trainee Grant Scholarship of 2019, 2020
2. UCSC Graduate Student Travel Award of 2019, 2020
3. Outstanding undergraduate award and First-Class academic scholarship for Huazhong University of Sci. and Tech. (HUST) of 2018

(e) 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.