Yue Guo

 $Mobile: (+1)443-525-1807 \mid Email: \underline{yguo50@uw.edu} \mid Webpage: \ https://yueguo-50.github.io/\\ Interests: Enhancing the accessibility and personalization of health information through the NLP methodologies$

EDUCATION AND TRAINING

University of Washington	Seattle, WA
Ph.D. in Biomedical & Health Informatics: Advanced Data Science	2019 - present
Johns Hopkins School of Medicine	Baltimore, MD
Postdoctoral Research Fellow	2018 - 2019
Johns Hopkins University	Baltimore, MD
Master of Health Science in Epidemiology	2016 - 2018
Capital Medical University	Beijing, China
M.B.B.S. (MD-equivalent) in Preventive Medicine	2011 - 2016
Research Experience	
Research Assistant with Trevor Cohen University of Washington School of Medicine	2019 - present
Research Intern with Tal August Allen Institute for Artificial Intelligence (AI2) - Sementic Scholar	Summer 2023
Research Intern with Zebo Li and Taihua He Google YouTube	Summer 2022
Research Intern with Kyle Williams Microsoft EmpowerMD	Summer 2021
Research Assistant with William Lober Cambia Palliative Care Center of Excellence at UW Medicine	Summer 2020
Postdoctoral Research Fellow with Todd McNutt Johns Hopkins Hospital, Radiation Oncology Department	2018 - 2019
Research Assistant with Avonne Connor	2017 - 2018
Johns Hopkins University Bloomberg School of Public Health	
Research Assistant with Youlin Qiao	2015 - 2016
Cancer Institute & Hospital, Chinese Academy of Medical Sciences and Peking Union Medical College	

Publications

Peer-Reviewed Articles

- Yue Guo, Joseph Chee Chang, Maria Antoniak, Erin Bransom, Trevor Cohen, Lucy Lu Wang, Tal August. Personalized Jargon Identification for Enhanced Interdisciplinary Communication. Preprint, 2023
- Yue Guo, Tal August, Gondy Leroy, Trevor Cohen, Lucy Lu Wang. APPLS: A Meta-evaluation Testbed for Plain Language Summarization. Preprint, 2023
- Yue Guo, Wei Qiu, Gondy Leroy, Sheng Wang, Trevor Cohen. CELLS: A Corpus for the Evaluation of Lay Language Summarization in the Biomedical Domain. Preprint, 2022
- Alison M. Uyeda, J. Randall Curtis, Ruth A. Engelberg, Lyndia C. Brumback, **Yue Guo**, James Sibley, William B. Lober, Trevor Cohen, Janaki Torrence, Joanna Heywood, Sudiptho R. Paul, Erin K. Kross, Robert Y. Lee. *Mixed-methods evaluation of three natural language processing modeling approaches for measuring documented goals-of-care discussions in the electronic health record.* Journal of Pain and Symptom Management, 2022
- Yue Guo, Changye Li, Carol Roan, Serguei Pakhomov, Trevor Cohen. *Crossing the 'Cookie Theft' Corpus Chasm: Applying what BERT Learns from Outside Data to the ADReSS Challenge Dementia Detection Task.* Frontiers in Computer Science, 2021
- Yue Guo, Wei Qiu, Yizhong Wang, Trevor Cohen. *Automated Lay Language Summarization of Biomedical Scientific Reviews*. 35th AAAI conference in Artificial Intelligence, 2021

- Yu-Cong Li, Yu-Qian Zhao, Ting-Yuan Li, Wen Chen, Guang-Dong Liao, Hai-Rui Wang, Hai-Ke Lei, **Yue Guo**, Qi Zhou. *The Performance of Immunocytochemistry Staining as Triaging Tests for High-Risk HPV-Positive Women: A* 24-Month Prospective Study. Journal of Oncology, 2020
- Yue Guo, Wei Jiang, Pranav Lakshminarayanan, Xuan Hui, Peijin Han, Zhi Cheng, Michale Bowers, Ilya Shpitser, Sauleh Siddiqui, Russell H Taylor, Harry Quon, Todd McNutt. Spatial radiation dose influence on xerostomia recovery and its comparison to acute incidence in head neck cancer patients. Advances in Radiation Oncology, 2020
- Peijin Han, Pranav Lakshminarayanan, Wei Jiang, Ilya Shpitser, Xuan Hui, Sang Ho Lee, Zhi Cheng, Yue Guo, Russ Taylor, Sauleh Siddiqui, Michael Bowers, Khadija Sheikh, Junghoon Lee, Harry Quon, Todd McNutt. Dose/Volume histogram patterns in Salivary Gland subvolumes influence xerostomia injury and recovery. Scientific Reports, 2019
- Feng-qi Luo, **Yue Guo**, Yi-fei Lu, Yue Zhang, Qi Gao, Hui-ping Zhu. Association between sleep and agricultural injuries among peach farmers during harvest time in Pinggu District, Beijing, China. Injury Medicine Magazine, 2016

Presentations

- Yue Guo, Pranav Lakshminarayanan, Peijin Han, Khadija Sheikh, Zhi Cheng, Wei Jiang, Michael Bowers, Sauleh Siddiqui, Ilya Shpitser, Russell H Taylor, Harry Quon, Todd McNutt. *The feasibility of outcome-based treatment planning strategy to improve xerostomia symptom in head and neck cancer patients*. International Journal of Radiation Oncology, Biology, Physics, 2019
- Yue Guo, Zhi Cheng, Emily Cecil, Pranav Lakshminarayanan, Yifei Lu, Peijin Han, Ana Kiess, Todd McNutt, Harry Quon. Evaluation of Patient vs. Provider Based Assessments of Xerostomia and Dysphagia Compared Against Weight Loss in the Irradiated Head and Neck Cancer Patient. International Journal of Radiation Oncology Biology Physics, 2019
- Zhi Cheng, Khadijia Sheikh, Pranav Lakshminarayanan, Wei Jiang, Peijin Han, **Yue Guo**, Emily Cecil, L Sloan, Ana Kiess, Brandi Page, Junhoon Lee, Harry Quon, Todd McNutt. *Voxel Dose Pattern for Patient-Reported Dysphagia Among Head and Neck Cancer Patients Receiving Definitive Radiotherapy*. International Journal of Radiation Oncology Biology Physics, 2019
- Matthew Deek, Emily Cecil, L Sloan, Zhi Cheng, Peijin Han, Khadijia Sheikh, Chengcheng Gui, Yue Guo, Pranav Lakshminarayanan, C Fakhry, W Koch, CG Gourin, M Tan, W Mydlarz, NC Schmitt, Todd McNutt, Brandi Page, Ana Kiess, J Richmon, Harry Quon Definitive Management of Early Stage Oropharyngeal Carcinoma: A Comparison of Long Term Outcomes Following Transoral Surgery or Definitive Chemoradiation. International Journal of Radiation Oncology Biology Physics, 2019
- Brandi Page, **Yue Guo**, Peijin Han, Zhi Cheng, J. Harkness, C. Shen, Amanda Choflet, Chen Hu, Emily Cecil, Xuan Hui, Nicole Schmitt, I. Shpitser, Ana Kiess, Todd McNutt, and Harry Quon. *Quality of Life differences in Male and Female Patients with Head and Neck Cancer* Scientific reports, 2018
- Peijin Han, Pranav Lakshminarayanan, W Liang, I Shpitser, Xuan Hui, Sang Ho Lee, Zhi Cheng, **Yue Guo**, Russell Taylor, Sauleh Siddiqui, Michael Bowers, Khadija Sheikh, Junghoon Lee, Harry Quon, Tidd McNutt. *Head and Neck Salivary Gland Spatial Dose-Volume histogram (DVH) Patterns Predict Radiation-Induced Xerostomia, From Injury to Recovery.* Medical Physics, 2018

TECHNICAL SKILLS

Programming Languages: Python, Java, CUDA, SQL, R, SAS, LATEX

Scientific Toolkits: PyTorch, TensorFlow, Gluon

Designer Tools: Axure, Adobe XD

SERVICES

Teaching

- BIME 591 D: What Can Large Language Models do for Clinical NLP? UW, Spring 2023
- Youth as Agents of Behavioural Change (YABC), The International Federation of Red Cross and Red Crescent Societies (IFRC), 2012-2016

Peer Review

- Journals: Journal of the American Medical Informatics Association, Journal of Biomedical Informatics
- Conferences: EMNLP, ACL, AAAI, AMIA, ACL Rolling Review

AWARDS