

# Yuyi Yang

[y.yuyi@wustl.edu](mailto:y.yuyi@wustl.edu)

[www.linkedin.com/in/yuyi-yang](https://www.linkedin.com/in/yuyi-yang)

<https://yyuyi.github.io/>

## EDUCATION

**Washington University in St. Louis** | MO, USA

*Aug 2023 – Present*

- **Ph.D. of Computational and Data Science** in Public Health
- **Scholarship/Honors:** Dean's Select PhD Fellowship; McDonnell International Scholars Academy

**Washington University in St. Louis** | MO, USA

*Aug 2020 – May 2023*

- **Master of Public Health** in Epidemiology/Biostatistics
- **Scholarship:** Brown School Scholarship

**Fudan University** | Shanghai, China

*Sep 2015 - Jun 2020*

- **Bachelor of Medicine** in Basic Medical Sciences
- **Scholarship/Honors:** Undergraduate Academic Excellence Scholarship (2016, 2017); Fudan University Medical School Scholarship sponsored by Eisai (2016); UBC full scholarship visiting scholar sponsored by Shanghai government (SXF820019) and Fudan University Medical School (IBF101101) (2018).

## SKILLS

**Programming:** Python; R; SAS; SPSS; Java; VB

**Languages:** Chinese (Native); English (Proficient); Japanese (Intermediate)

**Other:** Tableau; Microsoft Office; Photoshop; Wind

## PUBLICATIONS

- An R, Jing S, Wang J, Yang Y. A Scoping Review of Methodologies for Applying Artificial Intelligence to Physical Activity Interventions. *Journal of Sport and Health Science*. 2023. Accepted.
- An R, Yang Y\* (corresponding author), Yang F, Wang S. Use prompt to differentiate text generated by ChatGPT and humans. *Machine Learning with Applications*. 2023. <https://doi.org/10.1016/j.mlwa.2023.100497>
- An R, Batcheller Q, Wang J, & Yang Y. Build neural network models to identify and correct news headlines exaggerating obesity-related scientific findings. *Journal of Data and Information Science*. 2023. <https://doi.org/10.2478/jdis-2023-0014>
- An R, Yang Y (co-first author), Batcheller Q, & Zhou Q. Sentiment Analysis of Tweets on Soda Taxes. *Journal of public health management and practice: JPHMP*. 2023. 29(5), 633–639. <https://doi.org/10.1097/PHH.0000000000001721>
- Yang Y, Liu X. [Research process of Gasdermin E in inducing cell pyroptosis]. *Chinese journal of pathology*. 2021. 50(4), 421–424. <https://doi.org/10.3760/cma.j.cn112151-20200724-0058>

## RESEARCH EXPERIENCES

**Computational and Data Sciences** | Washington University in St. Louis

*Aug 2023 – Present*

*PhD Student, McKelvey School of Engineering*

- Artificial intelligence applications to public health field.

**Applied Machine and Deep Learning Using Health Data** | Washington University in St. Louis

*Mar 2022 – Aug 2023*

*Research Assistant, Brown School*

- Artificial intelligence applications to public health field.
- Systematic review and meta-analysis.

**Clonal Hematopoiesis and Risk of Incident Lung Cancer** | Washington University in St. Louis

*Jun 2022 - Aug 2022*

*Research Assistant, Division of Public Health Sciences, School of Medicine*

- Prospectively examined the association between clonal hematopoiesis and subsequent risk of lung cancer.

**The Role of GSDME in Breast Cancer Multidrug Resistance** | Fudan University

*Oct 2017 - Jun 2020*

*Undergraduate Project Investigator, Department of Pathology*

- Induced chemotherapy drug resistant breast cancer cell lines MCF-7, 231 by doxorubicin, carboplatin, and 5- fluorouracil.
- Detected 1) the expression of GSDME gene in breast cancer cell lines and its drug resistant ones by q-PCR and Western B
- lot 2) the ratio of pyroptosis in them.
- Concluded that GSDME was highly expressed in breast cancer resistant cell lines and the ratio of pyroptosis was correspondingly higher.

**The Role and Mechanism of RacGAP1 Regulated Mitochondrial Quality Control in Breast Cancer Invasion and Metastasis** | Fudan University

*Jun 2017 - Jun 2018*

*Research Assistant, Department of Pathology*

- Conducted literature review, analyzed experimental results, and presented data at journal club and seminars.

- Gained hands-on experiences of culturing cells, packaging lentivirus, and conducting basic molecular biological experiments such as running Western Blot, PCR, and DNA agarose gel, extracting RNA, DNA and protein.

## WORK EXPERIENCES

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### Washington University in St. Louis | MO, USA

#### Teaching Assistant/Mentored Teaching Experience

- Applied Machine Learning Using Health Data Jan 2023 – May 2023
- 2023 Artificial Intelligence Applications for Health Data Advanced Learning Certificate Aug 2023 – Dec 2023

### DasCapital Overseas Limited | Shanghai, China

Aug 2020 - Jan 2022

#### Full-time Associate (Jun 2021 - Jan 2022), Full-time Analyst (Dec 2020 - Jun 2021), Intern (Aug 2020 - Dec 2020)

- Provided financial advisory services on private placement for disruptive medical enterprises in growing stages.
- Wrote more than 100 pitchbooks, 10 business plans, and 8 industry research reports. The cumulative deal size in 2021 exceeds \$200 million. Track records:
  - Nutshell Therapeutics, AI+ allosteric drug, series A & A+
  - CommBio Therapeutics, bacterial vector gene therapy, Corporate Round & series Pre-A
  - Sciwind Biosciences, metabolic disease drug, series C
  - Holosensor Medical, IVD microfluidic systems, series pre-A+
  - Forqaly Medical, percutaneous ventricular assistant device, series B

### Jingan District Central Hospital of Shanghai | Shanghai, China

Sep 2018 - Jan 2019

#### Undergraduate Intern

- Assisted doctors in the Obstetrics, Gynecology, Internal Medicine, Surgery and Pediatrics Departments for 4 to 6 weeks each.
- Provided medical support as the first assistant or second assistant in surgical operations.
- Collected and organized patients' information, communicated with patients and family members, and prepared for surgery, and wrote discharge summaries.

## ACTIVITIES

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### AI interest group

March 2023 - Present

#### Co-organizer

- Organizing bi-weekly sharing sessions on AI applications and advances within the group.

### Poster Presentation

- ICTS Data Research Symposium Sep 2023
  - Sentiment Analysis of Tweets on Soda Taxes
  - Build Neural Network Models to Identify and Correct News Headlines Exaggerating Obesity-related Scientific Findings

### Graduate Student Affairs Advisory Board

Sep 2023 - Present

- Discussing matters affecting graduate and professional students at WashU monthly.

### Brown School Peer2Peer Program

August 2022 - May 2023

#### Peer Mentor

- Was available to first year students for questions and support.
- Provided access to people and resources.
- Offered incoming students extra support as they navigate grad school during a pandemic.

### Alumni Experience Forum

April 2023

#### Guest Speaker

- Shared experiences and insights on finding the path after graduating from Brown School.