

# Yanwei Jin

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## EDUCATION

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### Peking University

*Bachelor of Science in Nursing; GPA: 3.07/4.0*

Beijing, China

Sep 2017–Jul 2022

- Relevant Courses:
  - \* Medicine: Epidemiology and Social Medicine, Biochemistry.
  - \* Math: Probability and Statistics, Linear Algebra, Advanced Mathematics, Biostatistics.
  - \* Data Science: Learning Data Science with Python, Introduction to Database Systems.
- Major Awards and Honors:
  - \* Second Prize in Peking University Public Medical Science Education Competition (2021)
  - \* Third Prize in National College Student Challenge Cup Competition for an ankle dynamometer (2021)
  - \* First Prize in National College Student Innovative Experimental Project of China (2020)
  - \* Second Prize in Beijing Contest District in China Undergraduate Mathematical Contest in Modeling (2019)
  - \* Peking University Social Welfare Scholarship (2019)

## RESEARCH EXPERIENCE

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### Hong Kong Centre for Cerebro-Cardiovascular Health Engineering

*Research Assistant, Supervisor: Prof. Yuanting ZHANG*

Hong Kong, China

Jan 2023 – Present

- Applied noise reduction techniques to ECG, BP, and PTT data using scipy, pandas, and other tools.
- Analyzed BP prediction models based on PTT and PPG.
- Produced BP prediction models and improved accuracy by Machine Learning.

### National Natural Science Foundation of China

*Research Assistant, Supervisor: Prof. Hongyu SUN*

Beijing, China

Jul 2022 – Present

Subject Name: Construction of a knowledge graph-based chronic disease risk prediction model and health management pathway in the context of big data based on knowledge graph under the background of Big Data

- Used tools like selenium and requests to extract chronic disease risk factors from web content.
- Standardized and analyzed collected data using Natural Language Processing techniques.
- Utilized spaCy library to construct a knowledge graph related to chronic disease risk factors and health management.

### Beijing Natural Science Foundation Committee

*Research Assistant, Supervisor: Prof. Hongyu SUN*

Beijing, China

Jul 2021 – Jul 2022

Subject Name: Public risk perception, behavior patterns and emotional guidance under major public health emergency

- First author of a systematic review on public coping behavior during COVID-19:
  - \* Systematically searched COVID-19-related literature on public risk perception and coping behaviors in databases like PubMed; conducted quality assessment and content extraction.
  - \* Performed meta-analysis using Stata, subgroup analysis, and meta-regression to investigate sources of heterogeneity.
  - \* Conducted sensitivity analysis and Egger's test for bias detection.
- Author of a qualitative study on healthcare workers' risk perception during public health emergencies:
  - \* Developed interview outlines after reviewing related literature.
  - \* Conducted interviews with healthcare workers, recording and transcribing sessions for analysis.
  - \* Used Nvivo tool and Colaizzi's 7-step analysis method to extract key information and construct a time-based risk perception model.

### Innovative experimental project for college students

*Research Assistant, Supervisor: Prof. Zhiwen WANG*

Beijing, China

Sep 2019 – Oct 2020

Subject Name: Home care guide for the elderly with Dementia

- Conducted systematic searches of databases and websites of dementia associations to obtain high-quality literature; performed quality assessment and content extraction.
- Completed textual content for the guide in consultation with clinical experts in the treatment and care of dementia patients.
- Utilized AutoCAD software to create 2D and 3D illustrations for the guide.

## PUBLICATIONS

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- Li YQ, Gu JN, Sun YM, Shao J, Dang Y, Guo JM, Jin YW, Hu GY, Sun HY. Evolution of risk perception of medical staff during public health emergencies: a qualitative study[J]. Modern Clinical Nursing, 2022, 21(08):43-47.
- Jin YW, Sun HY, Ji Y. Public risk perceptions and coping behaviors in novel coronavirus pneumonia outbreaks: a systematic review[J]. Chinese Journal of Nursing Education (Will be published in April, 2023)

## WORK EXPERIENCE

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### **Peking University First Hospital**

Beijing, China

*Nurse Trainee, Supervisor: Hongyan GUO*

*Jul 2021 – May 2022*

- Rotated through Surgical Ward, Internal Medicine Ward, Obstetrics and Gynecology Ward, Pediatric Ward, Psychiatric Ward, Emergency Ward and Community Hospital.
- Completed clinical nursing operations as required by each ward.

## SKILLS & LANGUAGES

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**Programming Languages:** Python (Deep Learning), SQL, JavaScript, HTML/CSS, R, etc.

**Libraries:** PyTorch, Pandas, NumPy, Matplotlib, SciPy, etc.

**Softwares:** VS Code, MATLAB, PyCharm, RStudio, Stata, SPSS, NVivo, Neo4j, Adobe, C4D, etc.

**Clinical Skills:** Cardiopulmonary resuscitation, venous blood collection, injection techniques, nasal feeding, nucleic acid testing, aseptic techniques, vital sign monitoring, etc.

**Languages:** Chinese Mandarin (Native), English (Fluent), Chinese Cantonese (Conversational)