

# Jingye Wang | Curriculum Vitae

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Biostatistician. Medical background. Master of public health. Passionate about health data, with strong technical and interpersonal skills for working in a team.

## Education

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- **Wannan Medical College** **Wuhu, Anhui, China**  
*Bachelor of Medicine (MD equivalent in US), School of Medicine,* 2007.09–2012.07
- **Shanghai Jiao Tong University** **Shanghai, China**  
*Master of Medicine (Ophthalmic Specialty), School of Medicine,* 2012.08–2015.07
- **Washington University in St. Louis** **St. Louis, Missouri, USA**  
*Master of Public Health (Epidemiology/Biostatistics Specialty), Brown School,* 2015.08–2017.05

## Technical and Personal Skills

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- **Programming Skills:** R, Python, SQL, SAS, Stata, ArcGIS, JAGS, etc.
- **Industry Software Skills:** SPSS, Microsoft office, Tableau, Photoshop, GraphPad Prism, Endnote, etc.
- **Statistical Skills:** Skilled in **Social Network Analysis**; Skilled in **Geographic Information System**; Skilled in **Systematic Review** and **Meta-Analysis**; Skilled in **statistical analysis** of big data; Skilled in application of many **statistical models** including General Linear Model, Logistic Model, Poisson Model, Mixed Model, Hierarchical Model, and Risk Predictive Models; Familiar with application of **Machine Learning Algorithm** like Autoencoder, kNN, Ridge Regression, LASSO, Elastic Net, CART, Random Forest, SVM, EM, MCMC, Bagging, Boosting.
- **Medical Skills:** Treatment of Common Eye Diseases in Outpatient Clinic, Cataract and Vitreoretinal Surgery Capability as a skilled assistant, RCT, multi-center clinical trials, etc.
- **General Skills:** Good presentation skills; Draft preparation skills; Works well in a team.

## Certifications

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- **SAS Certified Base Programmer for SAS 9** 12/25/2015, No: BP055471v9
- **SAS Certified Advanced Programmer for SAS 9** 02/29/2016, No: AP016492v9

## Professional Experience

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- **Biostatistician** **Honolulu, Hawaii, USA**  
*Metabolomics Shared Resource, University of Hawaii Cancer Center* 2017.06–Present  
Database
- **Graduate Student Researcher** **St. Louis, Missouri, USA**  
*Brown School, Washington University in St. Louis* 2015.08–Present

"The Effects of Intravitreal Bevacizumab Therapy and Photon Dynamic Treatment Combined with Intravitreal Bevacizumab in the Treatment of Macular Edema Secondary to Retinal Vein Occlusion"

I was responsible for data extraction, data clean, data analysis, data visualization by using SAS and SPSS, and poster preparation.

"A Predictive Logistic Regression Model for Chronic Kidney Disease"

I was responsible for data analysis by using SAS and poster development. This work was presented in MWSUG 2016 e-Poster Session.

"Left-censored Missing Data Imputation Strategy by Using Bayesian Inference (JAGS) "

I was responsible for data extraction, data clean, coding by using R, data interpretation and poster preparation. This work will be presented on RWoW 2017.

#### Summer Practicum

**Honolulu, Hawaii, USA**

- University of Hawaii Cancer Center

2016.05–2016.08

"Missing Value Imputation Approach for Mass Spectrometry-Based Metabolomics Data"

I was responsible for the comparison of different strategies of missing value imputation, data analysis by using R, and the manuscript preparation.

"A Random Forest Predictive Model for Liver Disease Progression"

I was responsible for data clean, risk predictors selection by using LASSO, the establishment of the random forest model by using R, the multilevel ROC curve by using Python.

#### Clinical Research Fellow

**Shanghai, China**

- Shanghai First People's Hospital, Shanghai Jiao Tong University

2013.02–2015.07

"The Grading Process and Influence Factors of Diabetic Retinopathy in Reading Center."

I was responsible for study protocol, data extraction, data clean, data analysis, and draft development. This work was published on Chinese Journal of Ocular Fundus Diseases (First Author).

#### Clinical Trials Coordinator

**Shanghai, China**

- Shanghai Jiao Tong University Eye Institute Reading Center

2012.08–2015.07

"VIVID-EAST", a double-masked clinical trial of a phase3 diabetic macular edema (DME) program sponsored by Bayer Co.

Principal duties are including: Facilitation and coordination of daily clinical trial activities; Development of clinical study budgets based on proposed study protocols; Preparation of sponsor audit visits, monitor visits, and termination visits; SOP translations; Spreadsheet tracking updates to database of all subjects enrolled in the trial.

#### Clinical Rotating Internship

**Hefei, Anhui, China**

- Hefei First People's Hospital, Anhui Medical University

2011.01–2012.01

#### Clinical Rotating Internship

**Shanghai, China**

- Shanghai Fifth People's Hospital, Fudan University

2010.09–2011.01

## Professional Memberships

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- ASA American Statistical Association
- MWSUG MidWest SAS Users Group
- STLRUG Saint Louis R User Group

## Publications

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- Runmin Wei, **Jingye Wang**, Yan Ni, Wei Jia; Missing Value Imputation Approach for Mass Spectrometry-based Metabolomics data. Journal of Proteome Research (**Joint First Authors**, Under Review)

2. **Wang JY**, Wang FH, Zhou YP, Yu Q, Wang WJ, Liu K, Sun XD, Xu X; The Grading Process and Influence Factors of Diabetic Retinopathy in Reading Center. Chinese Journal of Ocular Fundus Diseases (**First Author**)
3. Xu FP, **Wang JY**, Wang FH, Sun XD; The Role of Dexamethasone in Experimental Endotoxin-induced Ocular Toxic Syndrome in Adult Pigmented Rabbits. Vet Ophthalmol (**Joint First Authors**, Under Revision)
4. Zhou YP, Wang FH, **Wang JY**, Liu YM, Yan Q, Zhu H, Zhang X, Sun XD; Enhanced Depth Imaging Optical Coherence Tomography of the Choroid in Tessellated Eyes of Highly Myopic Chinese Subjects with Correctable Visual Acuity. Retina (Under Review)

## Poster Presentations

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- **MWSUG 2016 e-Poster Session** "A Predictive Logistic Regression Model for Chronic Kidney Disease". October 10th, 2016, Cincinnati, Ohio.
- **Research Without Walls 2017** "Missing Value Imputation Approach for Metabolomics Data". April 20th, 2017, St. Louis, Missouri.

## Honors and Awards

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- **MWSUG 2016 Student Scholarship**
- **Practicum Scholarship, Brown School, Washington University in St. Louis, summer 2016**
- **Scholarship, School of Medicine, Shanghai Jiao Tong University, 2012–2013**
- **Scholarship, Wannan Medical College, 2009–2012**
- **Excellent Individual of Chinese Young Volunteers, Central Communist Youth League of China, 2010.12**
- **Top Ten Outstanding Youths of Wuhu, 2010**

## Volunteer Experience

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- **Shanghai World EXPO, China Pavilion**  
English VIP instructor, 2010.4–2010.10

## Graduate Coursework

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### Completed at the Washington University

- MPH.S55.5910 PUBLIC HEALTH SEMINAR I **A**
- MPH.S55.5010 CROSS-CUTTING THEMES IN PUBLIC HEALTH **A-**
- MPH.S55.5003 FOUNDATIONS OF PUBLIC HEALTH: BIOSTATISTICS **A-**
- MPH.S55.5002 FOUNDATIONS OF PUBLIC HEALTH: EPIDEMIOLOGY **A**
- MPH.S55.5000 RESEARCH METHODS **A-**
- MPH.S55.5961 SKILL LAB: STATISTICAL ANALYSIS: STATA **A**
- MPH.S55.5960 SKILL LAB: STATISTICAL ANALYSIS: SAS **A**
- MPH.S55.5920 PUBLIC HEALTH SEMINAR II **A**
- MPH.S55.5230 APPLIED LINEAR MODELING **A**
- MPH.S55.5011 EPIDEMIOLOGY METHODS **A-**
- MPH.S55.5004 FOUNDATIONS OF PUBLIC HEALTH: HEALTH ADMINISTRATION AND POLICY **A**
- MPH.S55.5001 FOUNDATIONS OF PUBLIC HEALTH: HEALTH BEHAVIOR AND HEALTH PROMOTION **A**
- MPH.S55.5701 PRACTICUM-MPH PROGRAM **Pass**
- PHS.M19.530 Multilevel Models In Quantitative Research **A**

- MPH.S55.5321 TRANSDISCIPLINARY PROBLEM SOLVING: GLOBAL HUNGER AND UNDERNUTRITION **A-**
- MPH.S55.5240 PLANNING, IMPLEMENTATION, EVALUATION EVIDENCE-BASED PROGRAMS, INTERVENTIONS **A-**
- MPH.S55.5005 FOUNDATIONS OF PUBLIC HEALTH: ENVIRONMENTAL HEALTH **A**
- SWK.S90.5010 SOCIAL NETWORK ANALYSIS **A-**
- PHS.M19.527 Development, Validation and Application of Risk Prediction Models **A-**
- MPH.S55.5962 SKILL LAB: INTRODUCTION TO THE R STATISTICAL PROGRAMMING LANGUAGE AND ENVIRONMENT **A**
- MPH.S55.5906 CULMINATING EXPERIENCE - CACE EXAM **Pass**
- MPH.S55.5905 CULMINATING EXPERIENCE - CACE PREP COURSE **Pass**
- MPH.S55.5355 TRANSDISCIPLINARY PROBLEM SOLVING: POPULAR CULTURE AND PUBLIC HEALTH **A-**
- MPH.S55.5082 FOUNDATIONS OF GEOGRAPHIC INFORMATION SYSTEMS (GIS) FOR THE APPLIED SOCIAL SCIENCES **A**