

Yanda Lang

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1301 Cecil B. Moore Ave. Ritter Annex Room 927, Philadelphia, PA

EDUCATION

Doctor of Philosophy, Statistics Western Michigan University Dissertation title: "Rank-Based Meta Analysis" Dissertation advisor: Dr. Joseph McKean	June 2021
Graduate Certificate in Biostatistics Western Michigan University	June 2021
Master of Science, Statistics University of Alaska Fairbanks Thesis title: "Edge Detection using Bayesian Process Convolutions" Thesis advisor: Dr. Margaret Short	May 2017
Bachelor of Science, Statistics Nanjing University of Finance and Economics	June 2014

PROFESSIONAL EXPERIENCE

Assistant Professor of Instruction, Biostatistics Department of Epidemiology and Biostatistics, Temple University, Philadelphia, PA	August 2021 - Present
Graduate Student Instructor, Statistics Department of Statistics, Western Michigan University, Kalamazoo, MI	August 2017 - May 2021
Data Scientist Intern Soothsayer Analytics, Livonia, MI	May 2019 - August 2019
Teaching Assistant, Statistics University of Alaska Fairbanks, Fairbanks, AK	August 2015 - May 2017

TEACHING EXPERIENCE

Assistant Professor of Instruction, Biostatistics Department of Epidemiology and Biostatistics, Temple University <u>Instructor</u> EPBI 8012: Multivariable Biostatistics EPBI 5006: Biostatistics and Applied Analysis of Health EPBI 5005: Biostatistics EPBI 5002: Applied Analysis of Health EPBI 3205: Intro to Statistical Computing EPBI 2219: Biostatistics and Public Health	August 2021 - Present
Graduate Student Instructor, Statistics Department of Statistics, Western Michigan University <u>Instructor</u> STAT 3660: Data Analysis for the Biosciences STAT 2160: Business Statistics	August 2017 - May 2021

Teaching Assistant

STAT 6630: Linear Models
STAT 5670: Design of Experiment
STAT 5660: Nonparametric Statistical Methods
STAT 5610: Applied Multivariate Statistical Methods
STAT 4640: Intro Statistical Computing
STAT 2600: Data Analysis Using R

Teaching Assistant, Statistics

August 2015 – May 2017

Department of Mathematics and Statistics, University of Alaska Fairbanks

Teaching Assistant

STAT 401 Regression and ANOVA
MATH 302 Differential Equations
MATH 253X Calculus III
MATH 251X Calculus I

SERVICE & AWARDS

Department of Epidemiology and Biostatistics, Temple University

Committee Chair, Epi-Bio Department Awards and Recognition Committee	January 2023 - Present
Committee Member, CPH Epi-Bio MPH-MS Admissions Committee	August 2021 - Present
Committee Member, Epi-Bio Department Curriculum Committee	August 2022 - Present
Faculty Advisor for MPH students	

Journal Reviewer

Statistics in Medicine
BMJ Open

ESG Workshop, “Introduction to Statistical Software: R and SAS”	March 2023
Biostatistics Core Workshop, “Introduction to Bayesian Statistical Analysis”	April 2022

2022-2023 Student-Selected Graduate Faculty Teaching Award, Temple University	2023
2021-2022 Student-Selected Undergraduate Faculty Teaching Award, Temple University	2022

PUBLICATIONS & RESEARCH OUTPUT

Lang, Y., McKean, J., & Ozturk, O. (2023), “Robust Rank-Based Meta-Analyses for Two-Sample Designs with Application to Platelet Counts of Malaria Infection Data,” *Statistics in Medicine*, 42(17):2887-2913

Alcantara, I., Naranjo, J., & **Lang, Y.** (2022), “Model Selection Using PRESS Statistic,” *Computational Statistics*, 1:14.

Lang, Y., & Zhang, J. (2015), “Influence of piezoelectric atomizer pores on ultrasonic atomization effect,” *In Proceedings of the 2014 Symposium on Piezoelectricity, Acoustic Waves, and Device Applications*, 287-290, IEEE.

Lang, Y., & Wu, Y. (2014), “An Investigation of Influencing Factors on Household Portfolio in China -- Based on Micro Econometric Analysis of Tobit Model,” *In 2014 International Conference on Management, Education and Social Science (ICMESS 2014)*, Atlantis Press.

(Under review) Kobulsky, J. M., Schroeder, K., Schuler, B., Patrick, E.L., **Lang, Y.** & Wu, J. (2023) “Developmental timing of child maltreatment in relation to obesity and substance use disorder in late adolescence,” *Psychology of Violence*

R package:

Lang, Y., McKean, J. & Ozturk, O. (2023), “RankBasedMeta,” available on Github, In preparation for CRAN.

In progress:

Alcantara, I., **Lang, Y.**, & Williams, F “Immigration, Parenting and Child Depression .”

Lang, Y., McKean, J., & Ozturk, O., “Hogg-Type Adaptive Rank-Based Meta-Analyses for Two-Sample Designs”

Alcantara, I., **Lang, Y.**, & Leiper, J “Bayesian Model Averaging and Model Selection.”

Alcantara, I., Naranjo, J., & **Lang, Y.**, “Statistical Properties of PRESS Statistic.”

PROFESSIONAL DEVELOPMENT WORKSHOPS FOR TEACHING

21st Annual Faculty Conference on Teaching Excellence	January 11, 2023 - January 12, 2023
CAT Workshop, “Effective Teaching Strategies in Synchronous Online Courses”	April 26, 2022
20th Annual Faculty Conference on Teaching Excellence	January 6, 2022 - January 7, 2022
Safe Zone Training II: Allocating for LGBTQIA+ Inclusion	December 6, 2021
Safe Zone Training I: Fundamentals of Gender and Sexuality	August 18, 2021
CAT Workshop, “First Generation Students and Faculty”	November 8, 2021
CAT Workshop, “Choosing Questions for Student Feedback Forms”	October 28, 2021
Seminar, “Virtual Course Redesign: Flip and More”	May 28, 2020
Training, “International Graduate Assistant Training Program”	August 28, 2017 - September 1, 2017
Teaching Seminar, “Practice Teaching”	November 18, 2015
Teaching Seminar, “Writing Homework, Quizzes, and Exams”	October 25, 2015
Teaching Seminar, “Creating a Lesson Plan”	October 11, 2015
Teaching Seminar, “Course Planning and Schedule”	October 6, 2015
Teaching Seminar, “Development of Course Syllabus”	September 22, 2015

MENTORING & ADVISING

Department of Epidemiology and Biostatistics, Temple University

Faculty Advisor

Anamarys Arroyo-Lloret - MPH, Applied Biostatistics

Kirsten Campbell - MPH, Applied Biostatistics

Jordan Fredette - MPH, Applied Biostatistics

Roukiatou Sore - MPH, Applied Biostatistics

INDUSTRY EXPERIENCE

Data Scientist Intern

May 2019 – August 2019

Soothsayer Analytics

Livonia, MI

- AMAG Pharmaceuticals: Provided statistical support concerning conflict results from phase III and phase IV study of Makena drug for preventing preterm birth.
- Safelite AutoGlass (Automotive): Assisted data pre-processing, data visualization, missing value analysis, imputation, and modeling.
- Kids Read Now (Education, Non-Profit Organization): Evaluated the effects on students' reading achievement of a reading program designed for elementary school students.
- R&D: Developed an alternative hyper-parameter tuning algorithm based on Bayesian Optimization in XGBoost model.
- R&D: Developed Python functions for missing value detection and imputation strategy suggestion based on data structure and missing data mechanism, which can be used as a routine diagnostic tool for data with any missing rates.

PROGRAMMING SOFTWARE & TEACHING TOOLS

Teaching Tools: Canvas, E-Learning, Blackboard, Zoom, WebEx, Socrative

Statistical Programming: R, SAS (Certified SAS 9.4 Programmer), Python, SQL, RStan

Other Software: WinBUGS, R shiny, Tableau, LaTeX, Github, Minitab, SPSS, Microsoft Office