Yanda Lang

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

EDUCATION

Doctor of Philosophy, Statistics June 2021
Western Michigan University
Dissertation title: "Rank-Based Meta Analysis"
Dissertation advisor: Dr. Joseph McKean

Graduate Certificate in Biostatistics June 2021
Western Michigan University

Master of Science, Statistics May 2017
University of Alaska Fairbanks
Thesis title: "Edge Detection using Bayesian Process Convolutions"
Thesis advisor: Dr. Margaret Short

Bachelor of Science, Statistics June 2014
Nanjing University of Finance and Economics

PROFESSIONAL EXPERIENCE

Assistant Professor of Instruction, Biostatistics August 2021 - Present
Department of Epidemiology and Biostatistics, Temple University, Philadelphia, PA

Graduate Student Instructor, Statistics August 2017 - May 2021
Department of Statistics, Western Michigan University, Kalamazoo, MI

Data Scientist Intern May 2019 - August 2019
Soothsayer Analytics, Livonia, MI

TEACHING EXPERIENCE

Assistant Professor of Instruction, Biostatistics August 2021 - Present
Department of Epidemiology and Biostatistics, Temple University
Instructor
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

Graduate Student Instructor, Statistics August 2017 - May 2021
Department of Statistics, Western Michigan University
Instructor
STAT 3660: Data Analysis for the Biosciences
STAT 2160: Business Statistics

PUBLICATIONS & RESEARCH OUTPUT

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*

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) Dissanayake, R., **Lang, Y.** & Alcantara, I. "Support Vector Regression for Modeling Overdispersed Data: An Application in Predicting Dengue Outbreak using Lagged Meteorological Factors," *Environmental and Ecological Statistics*

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 "Factors associated with Child Depression: Immigration, Parenting, and Substance Abuse."
Lang, Y., McKean, J., & Ozturk, O., "Hogg-Type Adaptive Rank-Based Meta-Analyses for Two-Sample Designs"
Alcantara , I., Naranjo, J., & **Lang, Y.**, "Statistical Properties of PRESS Statistic."

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
Committee Member, Epi-Bio Department DEIB Committee	August 2023 - Present

Faculty Advisor for MPH students

Journal Reviewer
Biometrics
Statistics in Medicine
Statistical Methods in Medical Research
BMJ Open
BJPsych 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

PROFESSIONAL DEVELOPMENT WORKSHOPS FOR TEACHING

22nd Annual Faculty Conference on Teaching Excellence	January 10, 2024 - January 11, 2024
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

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