JOONHA CHANG

CONTACT INFORMATION	LSUHSC Lions Eye Center (LEC) Office 261 2020 Gravier St, New Orleans, LA 70112	(504) 568-5771 jcha12@lsuhsc.edu

PROFESSIONAL EXPERIENCE

Louisiana State University Health Sciences Center   **New Orleans, LA**
Assistant Professor: Biostatistics & Data Science   2024—

EDUCATION

University of Texas Health Science Center at Houston   **Houston, TX**
Ph.D., Biostatistics & Data Science   2016—2018, 2021—2024

Penn State University   **State College, PA**
M.S., Operations Research   2018—2021

Johns Hopkins University   **Baltimore, MD**
M.S.E., Applied Mathematics & Statistics   2014—2015
B.S., Applied Mathematics & Statistics   2009—2010, 2012—2015

PUBLICATIONS

Peer-reviewed Publications

1. **Joonha Chang**, Hei Kit Chan, Jeffrey Lin, Wenyaw Chan*. Non-homogeneous Continuous-time Markov Chain with Covariates: Applications to Ambulatory Hypertension Monitoring. *Statistics in Medicine. 2023; 42(12): 1965–1980. doi: 10.1002/sim.9707*

PRESENTATIONS

Conferences

1. **Joonha Chang**, Wenyaw Chan* (2024): Latent Classification of Multi-model Non-homogeneous Continuous-time Markov Chains. 2024 Joint Statistical Meetings (JSM), Biometrics Section: Showcase of Time-Dynamic Statistical Methods and Applications, *American Statistical Association*, Portland, OR.

2. **Joonha Chang**, Yongsu Lee* (2024): Education of Optimization Method in Medical Field. Poster Session, 2024 Innovations in Health Science Education Conference, *The University of Texas System Academy of Health Science Education*, Austin, TX.

Seminars

1. **Joonha Chang**, Luca Giancardo* (2018): Towards Intoxication Detection via Non-invasive Natural Typing. Research Seminar, *University of Texas Health Science Center at Houston: McWilliams School of Biomedical Informatics*, Houston, TX.

2. **Joonha Chang**, Soyeon Ahn* (2016): Optimization Methodology in Biostatistics and Clinical Scheduling. Medical Research Seminar, *Seoul National University Bundang Hospital: Medical Research Collaborating Center*, Seongnam, Korea.

HONORS & AWARDS

Delta Omega Honorary Society in Public Health   2024
University of Texas Health Science Center at Houston: Alpha Iota Chapter

Outstanding Teaching Assistant Award   2024
University of Texas Health Science Center at Houston: Dept. of Biostatistics & Data Science

Departmental Scholarship   2023
University of Texas Health Science Center at Houston: Dept. of Biostatistics & Data Science

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*Corresponding Authors.

Dr. M. Stewart West Memorial Scholarship in Biometry	2023
University of Texas Health Science Center at Houston	
Keith D. Burau Ph.D. Scholarship	2022
University of Texas Health Science Center at Houston	
Richard D. Remington Memorial Scholarship	2017
University of Texas Health Science Center at Houston	
Outstanding New Student Scholarship	2016—2017
University of Texas Health Science Center at Houston	
Departmental Honors	2015
Johns Hopkins University: Dept. of Applied Mathematics & Statistics	
University Honors	2015
Johns Hopkins University	

TEACHING

Louisiana State University Health Sciences Center New Orleans, LA
Instructor: Dept. of Biostatistics & Data Science
· (BIOS 6700) Research Seminar in Biostatistics Fall 2024
· (BIOS 6100) Biostatistical Methods I Fall 2024

University of Texas Health Science Center at Houston Houston, TX
Course Development Assistant: Dept. of Biostatistics & Data Science
· (PH 1910) Probability and Distribution Theory Fall 2023
· (PH 1690) Foundations of Biostatistics Sum–Fall 2023

Teaching Assistant: Dept. of Biostatistics & Data Science
· (PHD 1950) Stochastic Processes in Biostatistics I Spr 2018, Spr 2024
· Doctoral Preliminary Exam Review Session Sum 2022, Sum 2023
· (PH 1830) Categorical Data Analysis Spr 2022
· (PH 1690) Foundations of Biostatistics Fall 2016, Spr–Sum–Fall 2017, Fall 2021

Global Knowledge Seoul, Korea
Visiting Lecturer
· Introduction to Machine Learning with Python
  · *ICT Innovation Square* Oct—Dec 2020
  · *KT Co., Ltd.* May—June 2020
· Introduction to Statistical Learning with R
  · *SK C&C Co., Ltd.* May 2020

Penn State University State College, PA
Teaching Assistant: Dept. of Industrial Engineering
· (IE 425) Stochastic Models in Operations Research Fall 2020
· (IE 302) Engineering Economics Fall 2020
· (IE 323) Statistical Methods in Industrial Engineering Fall 2019, Spr 2020
· (IE 405) Linear Programming in Operations Research Fall 2019

Johns Hopkins University Baltimore, MD
Teaching Assistant: Dept. of Applied Mathematics & Statistics
· (EN.550.310) Probability & Statistics Spr–Fall 2014, Spr 2015

PROFESSIONAL
SERVICE

Data Science in Science
Assistant Editor 2024—

Computer Skill	R, MATLAB, Python, LaTeX, Stata, Unix Shell, SQLite, Excel VBA, Gurobi, AIMMS, LINDO, Minitab