Jongwoo Choi **June 6, 2026**

CONTACT INFORMATION
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PROFESSIONAL APPOINTMENTS

Harvard University Cambridge, MA, USA

Postdoctoral Research Fellow, Department of Biostatistics June 2026 - Current
- Advisor: Jeffrey W. Miller

Columbia University Medical Center New York, NY, USA

Biostatistician, Division of Mental Health Data Science Feb. 2019 - July 2021

EDUCATION

University of Connecticut Storrs, CT, USA

Ph.D., Statistics Aug. 2020 - May 2026
- On leave for two years of mandatory military service in South Korea (Aug. 2021 - Aug. 2023)
- Dissertation Title: Robust Bayesian model selection
- Advisors: Neil Spencer and Dipak Dey

Columbia University New York, NY, USA

M.A., Statistics (Mentor: Andrew Gelman) Aug. 2017 - Feb. 2019

California State University, Chico Chico, CA, USA

B.S. Mathematics and Statistics with Honors Jan. 2014 - May 2017
Thesis Title: "Counting Eisenstein Polynomials satisfying a condition from Genus theory"
Thesis Advisor: Kevin McGown

MANUSCRIPTS

1. **Choi, J.**, Spencer N., & Dey, D. Robust Bayesian predictive model selection using Bregman divergence. *In preparation.*

THEORY AND METHODS

1. **Choi, J.**, & O'Hagan, S. (2026). Supercharging Bayesian inference with reliable AI-informed priors. *arXiv preprint arXiv:2605.09834* (Under review)
2. **Choi, J.**, Jo, S., & Kim, J. Mercer kernel-based spatial seemingly unrelated regression models: Bayesian inference and hierarchical extension. (Under review)
3. **Choi, J.**, Spencer, N. A., & Miller, J. W. (2026). Robust model selection using likelihood as data. *arXiv preprint arXiv:2602.23355* (Under review)
4. Diniz, C., **Choi, J.**, Lachos, V. An EM algorithm for fitting matrix-variate Student's-t distributions on interval-censored and missing data. (Under review)
5. Lee, K., **Choi, J.**, Jang, E. J., & Dey, D. (2025). Multivariate robust linear models for multivariate longitudinal data. *Journal of Multivariate Analysis*, *206*, 105392. https://doi.org/10.1016/j.jmva.2024.105392
6. **Choi, J.**, Jo, S., & Kim, J. (2024). A Bayesian time-varying coefficient model for Cobb–Douglas production function. *Computational Economics*, 1–27. https://doi.org/10.1007/s10614-024-10598-1
7. Lee, S., **Choi, J.**, Fang, Z., & Bowman, F. D. (2023). Longitudinal canonical correlation analysis. *Journal of the Royal Statistical Society Series C: Applied Statistics*. https://doi.org/10.1093/jrsssc/qlad022
8. **Choi, J.**, & McGown, K. J. (2020). Counting Eisenstein polynomials satisfying a condition from genus theory. *INTEGERS*, *20*, 2

Applied Papers

1. Maikos J., Sidiropoulos, A., Chomack J., and 10 others including **Choi, J.** Toward evidence-based prescription of prosthetic ankle-foot devices: A multisite evaluation to identify functional, subjective, and biomechanical parameters sensitive to device type in individuals with transtibial limb loss. (Under review)

2. Motter, J. N., **Choi, J.**, Lee, S., Goldberg, T. E., Albert, S., & Devanand, D. P. (2023). Association of performance on olfactory and cognitive screening tests with conversion to dementia in a biracial cohort of older adults. *Neurology*

3. Motter, J. N., **Choi, J.**, Lee, S., Goldberg, T. E., & Devanand, D. P. (2022). Intact olfactory and cognitive abilities predict lack of transition to dementia in a biracial sample of older adults. *Alzheimer's & Dementia*, *18*, e066216

4. **Choi, J.**, Lee, S., Motter, J. N., Kim, H., Andrews, H., Doraiswamy, P. M., Devanand, D., & Goldberg, T. E. (2022). Models of depressive pseudoamnestic disorder. *Alzheimer's & Dementia: Translational Research & Clinical Interventions*, *8*(1), e12335

5. Goldberg, T. E., **Choi, J.**, Lee, S., Gurland, B., & Devanand, D. P. (2021). Effects of restriction of activities and social isolation on risk of dementia in the community. *International Psychogeriatrics*, *33*(11), 1207–1215

6. He, X., Pueraro, E., Kim, Y., Garcia, C. M., Maas, B., **Choi, J.**, Egglefield, D. A., Schiff, S., Sneed, J. R., Brown, P. J., et al. (2021). Association of white matter integrity with executive function and antidepressant treatment outcome in patients with late-life depression. *The American Journal of Geriatric Psychiatry*, *29*(12), 1188–1198

7. Rutherford, B. R., Choi, C. J., **Choi, J.**, Mass, B., He, X., O'Boyle, K., Sneed, J., Brown, P. J., Brickman, A., Wall, M. M., et al. (2021). Slowed processing speed disrupts patient expectancy in late life depression. *The American Journal of Geriatric Psychiatry*, *29*(7), 619–630

8. Neumark-Sztainer, D., Wall, M. M., **Choi, J.**, Barr-Anderson, D. J., Telke, S., & Mason, S. M. (2020). Exposure to adverse events and associations with stress levels and the practice of yoga: Survey findings from a population-based study of diverse emerging young adults. *The Journal of Alternative and Complementary Medicine*, *26*(6), 482–490

9. Devanand, D. P., Liu, X., Chunga, R. E., Cohen, H., Andrews, H., Schofield, P. W., Stern, Y., Huey, E. D., **Choi, J.**, & Pelton, G. H. (2020). Odor identification impairment and change with cholinesterase inhibitor treatment in mild cognitive impairment. *Journal of Alzheimer's Disease*, *75*(3), 845–854

10. Rutherford, B. R., **Choi, J.**, Slifstein, M., O'Boyle, K., Abi-Dargham, A., Brown, P. J., Wall, M. W., Vanegas-Arroyave, N., Sakhardande, J., Stern, Y., et al. (2020). Neuroanatomical predictors of L-DOPA response in older adults with psychomotor slowing and depression: A pilot study. *Journal of affective disorders*, *265*, 439–444

Awards

Best Student Paper Competition Award (with Travel Award), the 39th New England Statistics Symposium (NESS) 2026

Travel Award from International Society of Bayesian Analysis (ISBA), the 14th International Conference on Bayesian Nonparametrics at UCLA 2025

Matthew Goldstein Foundation Fellowship, UConn 2025

Best Performance Award in Probability, University of Connecticut 2024

Best Performance Award in Inference, University of Connecticut 2024

Brigadier General Commendation, Republic of Korea Army Headquarters 2022

MA General Scholarship, Columbia University 2018

1st Place, Outstanding Graduate Senior Award, CSU Chico (Link to news media) 2017

Lieutenant Robert Merton Rawlins Merit Award, CSU Chico 2016

National Science Foundation (NSF) Scholarship Recipient, CSU Chico 2016

Academic Excellence Award on Real Analysis (Math 420), CSU Chico 2016

Teaching Experience

Primary Instructor

Introduction to Mathematical Statistics I (STAT 3375), UConn	Fall 2024

Guest Lecturer

Mathematical Statistics I (STAT 5585), UConn	Fall 2025
Introduction to Mathematical Statistics II (STAT 3445), UConn	Spring 2024

Teaching Assistant & Grader

Statistical Inference II (STAT 6515), UConn	Spring 2026
Mathematical Statistics I (STAT 5585), UConn	Fall 2025
Introduction to Mathematical Statistics II (STAT 3445), UConn	Spring 2025, Fall 2025
Applied Linear Regression in Data Science (STAT 3215Q), UConn	Fall 2025
Design of Experiments (STAT 3515), UConn	Fall 2025
Applied Machine Learning (STATGR 5293), Columbia Univ.	Spring 2018
Statistical Computing in R Programming (Math 398), CSU Chico	Fall 2017
Analytic Geometry and Calculus (Math 120), CSU Chico	Fall 2017
Elementary Linear Algebra (Math 235), CSU Chico	Fall 2016

Selected Presentations

"Robust Bayesian Model Selection using Bregman Divergence". Eastern Asia Chapter of ISBA (EAC-ISBA), Daegu, Republic of Korea 07/2025

"Robust Bayesian Model Selection using Bregman Divergence". The 14th International Conference on Bayesian Nonparametrics (BNP14), UCLA , Los Angeles, CA, USA 06/2025

"Robust Bayesian Model Selection using Bregman Divergence". BAyesian Young Statisticians Meeting (BAYSM), Ca' Foscari University, Venice, Italy. 08/2024

"Multivariate Robust Linear Models for Multivariate Longitudinal Data". The 37th New England Statistics Symposium (NESS), University of Connecticut, Storrs, CT, USA 05/2024

"Classification of Autism Spectrum Disorder based on Brain Imaging using Convolutional Neural Networks". Columbia University Data Science Institute Health Analytics Poster Session, New York, NY, USA 02/2019

"A simulation study to compare bias among common Edit and Imputation methods". College of Natural Sciences Poster Session, Chico, CA, USA 08/2017

"Counting Eisenstein polynomials with genus number one". West Coast Number Theory Conference, Monterey, CA, USA 05/2017

"Evaluation of a specific fourth down strategies in football". Northern California Undergraduate Math Conference, Turlock, CA, USA 04/2016

Software

Lee S., **Choi J.** (2022) lcca. R package version 1.0.0. https://github.com/seonjoo/lcca

Service and Memberships

Ad hoc reviewer, NeurIPS, 2025

Member, Bayesian Statistics Reading Group, University of Connecticut, 2023

Member, Neuroimaging Journal Club at the department of Biostatistics, Columbia University Medical Center, 2018 - 2023

Member, Seminar Committee at the division of Mental Health Data Science, Columbia University Medical Center, 2019-2020

Member, Columbia Statistics Club (CSC), Columbia University, 2017-2019

Work Experience

Statistical Consulting Service at UConn — Storrs, CT, USA
Graduate Consultants — Aug. 2023 - Current

Travelers — Hartford, CT, USA
Research Assistant — Aug. 2024 - May 2025

Republic of Korea Army Headquarters — Gyeryong, Republic of Korea
Data Scientist — Nov. 2021 - May 2023

New York State Psychiatric Institute — New York, NY, USA
Volunteer — June 2018 - Aug. 2018