

Jeong Min Jeon

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Education

B.S. in Mathematical Sciences and B.S. in Statistics

Seoul National University, South Korea

Mar. 2007 - Feb. 2012

Exchange student program

University of Queensland, Australia

Jul. 2011 - Nov. 2011

Ph.D. in Statistics

Seoul National University, South Korea

Supervisor: Byeong U. Park

Mar. 2012 - Aug. 2018

Academic Positions

Postdoctoral fellow

KU Leuven, Belgium

Supervisor: Ingrid Van Keilegom

Sep. 2018 - Aug. 2021

Postdoctoral fellow (Joint position)

KU Leuven and University of Namur, Belgium

Supervisor: Ingrid Van Keilegom and Germain Van Bever

Sep. 2021 - Aug. 2022

Postdoctoral fellow

Seoul National University, South Korea

Sep. 2022 - Feb. 2024

Assistant professor

Ewha Womans University, South Korea

Mar. 2024 - Present

Research Interests

Structured nonparametric regression

Non-Euclidean data analysis

Measurement error problems

Survival data analysis

Deep learning

Publications

[^] = Co-first authors

^{*} = Corresponding author

1. Shin, C. W., Kim, G. A., Park, W. J., Park, K. Y., **Jeon, J. M.**, Oh, H. J., Kim, M. J. and Lee, B. C. (2016). Learning, memory and exploratory similarities in genetically identical cloned dogs. Journal of Veterinary Science, **17**, 563–567.

2. **Jeon, J. M.** and Park, B. U. (2020). Additive regression with Hilbertian responses. Annals of Statistics, **48**, 2671–2697.

3. **Jeon, J. M.**, Park, B. U. and Van Keilegom, I. (2021). Additive regression for predictors of various natures and possibly incomplete Hilbertian responses. Electronic Journal of Statistics, **15**, 1473–1548.

4. **Jeon, J. M.**, Park, B. U. and Van Keilegom, I. (2021). Additive regression for non-Euclidean responses and predictors. *Annals of Statistics*, **49**, 2611–2641.
5. **Jeon, J. M.**, Lee, Y. K., Mammen, E. and Park, B. U. (2022). Locally polynomial Hilbertian additive regression. *Bernoulli*, **28**, 2034–2066.
6. **Jeon, J. M.**, Park, B. U. and Van Keilegom, I. (2022). Nonparametric regression on Lie groups with measurement errors. *Annals of Statistics*, **50**, 2973–3008.
7. **Jeon, J. M.*** and Van Keilegom, I. (2023). Density estimation for mixed Euclidean and non-Euclidean data in the presence of measurement error. *Journal of Multivariate Analysis*, **193**, 105125.
8. Park, S., **Jeon, J. M.** and Lee, Y. K. (2023). Nonparametric compositional data analysis for tourism industry in Gangwon area. *The Korean Journal of Applied Statistics*, **36**, 473–488.
9. **Jeon, J. M.*** and Van Keilegom, I. (2024). Density estimation and regression analysis on hyperspheres in the presence of measurement error. *Scandinavian Journal of Statistics*, **51**, 513–556.
10. Cho, S. [^], **Jeon, J. M. [^]**, Kim, D., Yu, K. and Park, B. U. (2024). Partially linear additive regression with a general Hilbertian response. *Journal of the American Statistical Association*, **119**, 942–956.
11. **Jeon, J. M.** (2025). Errors-in-variables regression for mixed Euclidean and non-Euclidean predictors. *Journal of Nonparametric Statistics*, **37**, 282–318.
12. **Jeon, J. M.** (2025). Deconvolution density estimation on Lie groups without auxiliary data. *Journal of Multivariate Analysis*, **209**, 105464.
13. **Jeon, J. M.*** and Van Bever, G. (2025). Additive regression for Riemannian functional responses. *Journal of Multivariate Analysis*, **210**, 105466.

Papers under Review or Revision

1. **Jeon, J. M.*** and Van Bever, G. Multivariate Hilbertian additive regression with general estimated variables. (Under revision for Bernoulli)
2. **Jeon, J. M.** and Bandyopadhyay, D. Structured nonparametric regression for functional DTI data.
3. Kim, G. M., Park, B. U. and **Jeon, J. M.*** Hybrid deep additive neural networks.
4. Lim, C. J., **Jeon, J. M.*** and Park, B. U. Local Frechet regression with spherical predictors.

Organization of Conference Sessions

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| 1. International Conference on Econometrics and Statistics, Tokyo
Recent advances in non-Euclidean data analysis | <i>Aug. 2025</i> |
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Conference Talks

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| 1. European Meeting of Statisticians, Palermo
Additive regression with mixed predictors and incomplete Hilbertian responses | <i>Jul. 2019</i> |
| 2. CMStatistics, London
Additive regression with metric-spaced-valued predictors and Hilbertian responses | <i>Dec. 2019</i> |
| 3. World Congress in Probability and Statistics, Seoul
Deconvolution estimation on hyperspheres
Organized contributed talk | <i>Jul. 2021</i> |

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| 4. International Symposium on Nonparametric Statistics, Paphos
Nonparametric regression on Lie groups with measurement errors
Invited talk | <i>Jun. 2022</i> |
| 5. IMS Annual Meeting in Probability and Statistics, London
Nonparametric regression on Lie groups with measurement errors
Topic contributed talk | <i>Jun. 2022</i> |
| 6. Korean Statistical Society Winter Meeting, Jeju
Analysis of Non-Euclidean Data: Introduction and Recent Developments
Plenary talk | <i>Dec. 2022</i> |
| 7. International Conference on Econometrics and Statistics, Tokyo
Additive regression with general imperfect variables | <i>Aug. 2023</i> |
| 8. CMStatistics, Berlin
Additive regression with general imperfect variables
Invited talk | <i>Dec. 2023</i> |
| 9. IMS-APRM, Melbourne
Density estimation on Lie groups in the presence of measurement error without auxiliary data
Invited talk | <i>Jan. 2024</i> |
| 10. Korean Statistical Society Summer Meeting, Seoul
Density estimation on Lie groups in the presence of measurement error without auxiliary data
Invited talk | <i>Jul. 2024</i> |
| 11. IMS International Conference on Statistics and Data Science, Nice
Density estimation on Lie groups in the presence of measurement error without auxiliary data
Invited talk | <i>Dec. 2024</i> |
| 12. International Conference on Econometrics and Statistics, Tokyo
Structured nonparametric regression for functional diffusion tensor imaging data | <i>Aug. 2025</i> |

Seminar/Workshop Talks

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|---|------------------|
| 1. KU Leuven
Nonparametric additive regression with Hilbertian responses | <i>Nov. 2018</i> |
| 2. Toulouse School of Economics
Additive regression with some metric-space-valued predictors and Hilbertian responses | <i>Dec. 2019</i> |
| 3. University of Illinois Chicago
Additive regression for non-Euclidean data | <i>Nov. 2020</i> |
| 4. University of Namur
Deconvolution estimation on hyperspheres | <i>Dec. 2021</i> |
| 5. Seoul National University
Additive regression with general incomplete variables | <i>Oct. 2022</i> |
| 6. Korea Institute for Advanced Study
Statistical non-Euclidean data analysis: An introduction and some developments | <i>Feb. 2023</i> |
| 7. Sungkyunkwan University
Additive regression with general imperfect variables | <i>May. 2023</i> |
| 8. Ewha Womans University | <i>Jan. 2024</i> |

Multivariate additive regression for general unobservable variables

9. Chung-Ang University

Jul. 2024

Additive regression for Riemannian functional responses

10. Virginia Commonwealth University

Aug. 2024

Partially linear additive regression with a general Hilbertian response

11. Seoul National University

Feb. 2025

Structured nonparametric regression for functional DTI data

Referee Services

Annals of Statistics

Annals of the Institute of Statistical Mathematics

Biometrika

Communications for Statistical Applications and Methods

Computational Statistics

Computational Statistics and Data Analysis

Electronic Journal of Statistics

International Statistical Review

Journal of Nonparametric Statistics

Journal of the American Statistical Association

Journal of the Korean Statistical Society

Metrika

R Journal

Statistica

Statistica Sinica

Statistics and Computing

Statistics in Medicine

Test

Teaching

Basic Mathematics for Data Science

Numerical Methods for Data Science

Probability for Data Science

Regression Analysis

Statistics for Data Science (Graduate course)

Supervision of Master Students

Mitja Briscik

2021

Boundary estimation in deconvolution problems with unknown error variance

KU Leuven (Joint with Ingrid Van Keilegom)

Supervision of Ph.D. Students

Donghyun Lee

2024

Singular component analysis for multivariate functional data with general sparsity

Seoul National University (Joint with Byeong U. Park)

Kyumin Kim

2024

Deep learning and differential privacy with additive structure

Seoul National University (Joint with Byeong U. Park)

Changjun Im

2024

Local Frechet regression with spherical predictors
Seoul National University (Joint with Byeong U. Park)

Ph.D. Thesis Committees

High-dimensional regression for manifold data	2024
Seoul National University	
Nonparametric causal additive models with smooth backfitting	2024
Seoul National University	
Singular component analysis for multivariate functional data with general sparsity	2024
Seoul National University	
Deep learning and differential privacy with additive structure	2024
Seoul National University	
Local Frechet regression for spherical predictors	2024
Seoul National University	
Sequential dimension reduction for non-Euclidean data and its strong consistency	2025
Seoul National University	

Honors

Best Ph.D. Thesis Award	<i>Aug. 2018</i>
Seoul National University	
Outstanding Contribution in Reviewing	<i>Sep. 2018</i>
Computational Statistics and Data Analysis	
S-OIL Dissertation of the Year Award	<i>Feb. 2021</i>
Grand prize in the field of Mathematics	
Korean Academy of Science and Technology and Korean University Presidents Association	

Grants

Post-Doctoral Overseas Training (Sole PI)	<i>Sep. 2020 - Aug. 2021</i>
National Research Foundation of Korea	
Post-Doctoral Domestic Training (Sole PI)	<i>Sep. 2022 - Aug. 2023</i>
National Research Foundation of Korea	
Presidential Post-Doctoral Fellowship (Sole PI)	<i>Mar. 2023 - Feb. 2028</i>
National Research Foundation of Korea	
Ewha Womans University Research Grant (Sole PI)	<i>Mar. 2024 - Feb. 2026</i>
Ewha Womans University	

Selected Scholarships

Kwanjeong Scholarship	<i>Mar. 2009 - Feb. 2011</i>
Kwanjeong Educational Foundation	
Next Generation Scholarship for Basic Studies (Type I)	<i>Mar. 2014 - Aug. 2015</i>
Seoul National University	
Next Generation Scholarship for Basic Studies (Type II)	<i>Mar. 2016 - Aug. 2018</i>
Seoul National University	

Industrial Projects

Begas Co., Ltd. Development of statistical tools for manufacturing companies	<i>Apr. 2014 - Mar. 2016</i>
Eusu ShipManagement Co., Ltd. Predictive maintenance for ships management	<i>Dec. 2014 - Jan. 2015</i>
Kobox Co., Ltd. Prediction of the number of movie audiences	<i>Feb. 2015 - Mar. 2015</i>
Sejong Co., Ltd. Outlier detection in housing prices	<i>Oct. 2015</i>
Posco ICT Co., Ltd. Estimation of the support and maximizer of production functions	<i>Oct. 2015 - Nov. 2015</i>
Begas Co., Ltd. Image classification using deep learning	<i>Mar. 2016 - May. 2016</i>
Maeil Dairies Co., Ltd. Image classification using deep learning	<i>Aug. 2016 - Nov. 2016</i>
Shinhan Bank Co., Ltd. Prediction of stock prices using deep learning	<i>Dec. 2016</i>
Korean Air Co., Ltd. Prediction of the number of passengers for scheduling flights	<i>Jan. 2017 - Mar. 2017</i>
Korea Land and Housing Corporation Estimation of the proportion of housing defect treatments	<i>Feb. 2017</i>