

# Jeong Min Jeon

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## Education

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### **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

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### **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

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Structured nonparametric regression

Non-Euclidean data analysis

Measurement error problems

Survival data analysis

Deep learning

## Publications

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<sup>^</sup> = Co-first authors

<sup>\*</sup> = 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. 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.
10. 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.
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

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

## Organization of Conference Sessions

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

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

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

### Seminar/Workshop Talks

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

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| 8. <b>Ewha Womans University</b><br>Multivariate additive regression for general unobservable variables                | <i>Jan. 2024</i> |
| 9. <b>Chung-Ang University</b><br>Additive regression for Riemannian functional responses                              | <i>Jul. 2024</i> |
| 10. <b>Virginia Commonwealth University</b><br>Partially linear additive regression with a general Hilbertian response | <i>Aug. 2024</i> |
| 11. <b>Seoul National University</b><br>Structured nonparametric regression for functional DTI data                    | <i>Feb. 2025</i> |

## Referee Services

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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  
 Stochastics  
 Test

## Teaching

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Basic Mathematics for Data Science  
 Numerical Methods for Data Science  
 Probability for Data Science  
 Regression Analysis  
 Statistics for Data Science (Graduate course)  
 Understanding of AI and Data Science (Team teaching)

## Supervision of Master's Students

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Mitja Briscik	<i>2021</i>
Boundary estimation in deconvolution problems with unknown error variance	
KU Leuven (Joint with Ingrid Van Keilegom)	

## Supervision of Ph.D. Students

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Donghyun Lee	<i>2024</i>
Singular component analysis for multivariate functional data with general sparsity	
Seoul National University (Joint with Byeong U. Park)	
Kyumin Kim	<i>2024</i>
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

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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

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

## Grants

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**Post-Doc. Overseas Training (Sole PI)** *Sep. 2020 - Aug. 2021*  
National Research Foundation of Korea  
  
**Post-Doc. Domestic Training (Sole PI)** *Sep. 2022 - Aug. 2023*  
National Research Foundation of Korea  
  
**Sejong Science Fellowship (Sole PI)** *Mar. 2023 - Feb. 2028*  
National Research Foundation of Korea  
  
**Ewha Womans University Research Grant (Sole PI)** *Mar. 2024 - Feb. 2026*  
Ewha Womans University

## Selected Scholarships

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

## Industrial Projects

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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>