Junhyung Park

updated 7th September, 2022

Education

Nov.2019– **PhD in Machine Learning**, *Empirical Inference Department, Max Planck Institute for Intelligent Systems*, Tübingen, Germany
Supervised by **Krikamol Muandet** and **Bernhard Schölkopf**
Participated: **ELISE Theory Workshop on Machine Learning Fundamentals, 2022**, Eurecom
Participated: **Saint Flour Probability Summer School, 2022**
Participated: **RegML Summer School 2021**, by Lorenzo Rosasco
Organised: **Machine Learning Summer School, Tübingen, 2020**
Participated: **Functional Inference and Machine Intelligent workshop, 2020**, Eurecom

Sep.2017 – Aug.2019 **MSc in Statistics**, *Seminar für Statistik, Dept. of Mathematics, ETH*, Zürich, Switzerland
Thesis: "Kernel Measures of Conditional Independence", supervised by **Sara van de Geer**
Brownian Motion and Stochastic Calculus, Fundamentals of Mathematical Statistics, Computational Statistics, Introduction to Machine Learning, etc.

Oct.2015 – Jun.2016 **MMath in Mathematics**, *Trinity College, University of Cambridge*, Cambridge, UK
Commutative Algebra, Functional Analysis, Differential Geometry, Representation Theory, etc.

Oct.2012 – Jun.2015 **BA in Mathematics**, *Trinity College, University of Cambridge*, Cambridge, UK
Galois Theory, Linear Analysis, Differential Geometry, Number Fields, Complex Analysis, etc.

Work Experience

Sep.2016 – Jun.2017 **Junior Researcher in Statistics**, *Caleb ABC*, Seoul, Korea
Developed data envelopment analysis and logistic regression features on B-Box, a statistics software

Publications

arXiv 2022 Park, J. and Muandet, K. Towards Empirical Process Theory for Vector-Valued Functions: Metric Entropy of Smooth Function Classes.

ICML 2021 Park, J., Shalit, U., Schölkopf, B. and Muandet, K. Conditional Distributional Treatment Effect with Kernel Conditional Mean Embeddings and U-Statistic Regression.

arXiv 2020 Park, J. and Muandet, K. Regularised Least-Squares Regression with Infinite Dimensional Output Space.

NeurIPS 2020 Park, J. and Muandet, K. A Measure-Theoretic Approach to Kernel Conditional Mean Embeddings.

Invited Talks

Setp 2022 ELISE Theory workshop on machine learning fundamentals, **Kernel Conditional Mean Embeddings and Empirical Process Theory for Vector-Valued Functions**

Jul 2022 Saint Flour Probability Summer School, **Empirical Process Theory for Vector-Valued Functions**

Mar 2022 Cornell University (Nathan Kallus), **Distributional Treatment Effects with Kernels**

Jul 2020 Petnica Summer Institute Machine Learning (Microsoft, Belgrade), **Kernel Methods in Machine Learning**

Reviews

ACML 2020, 2021

AoS 2021

NeurIPS 2021, 2022

ICLR 2022

AISTATS 2022 (Top 10% of reviewers)

ICML 2022

Technical Skills

Programming PYTHON, R, MATLAB

Software LaTeX

Languages & Additional Activities

Languages Korean (Mother Tongue), English (Bilingual), French (Upper-Intermediate), German (Elementary), Italian (Elementary)

Football Member of Trinity College 1st Football Team (2012-2016) with captaincy (2013-2014). Member of TV Derendingen 2021–

Other Sports Badminton, Running, Gym

Music Piano, grade 8, Associated Board of the Royal Schools of Music, UK