Junhyung Park

updated 20th June, 2023

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**

Sep.2017 – Aug.2019 **MSc in Statistics**, *Seminar für Statistik, Dept. of Mathematics, ETH Zürich*, Switzerland
Thesis: "Kernel Measures of Conditional Dependence", 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

Aug.2023 – Dec 2023 **Applied Scientist Intern**, *Amazon Web Services*, Santa Clara, California, US
supervised by Shiva Kasiviswanathan, jointly mentored by Aaditya Ramdas at CMU

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 2023 Park, J., Buchholz, S., Schölkopf, B. and Muandet, K. A Measure-Theoretic Axiomatisation of Causality.

ALT 2023 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.

Presentations (I = invited talk, C = contributed talk, P = poster)

Jul 2023, P European Meeting of Statisticians, Warsaw, Poland, **Towards a Measure-Theoretic Axiomatisation of Causality**

May 2023, C	Colloquium on "Fundamental Challenges in Causality", Grenoble, France, **Towards a Measure-Theoretic Axiomatisation of Causality**
Apr 2023, I	Colloquium on "When Causal Inference meets Statistical Analysis", Paris, France, **Towards a Measure-Theoretic Axiomatisation of Causality**
Apr 2023, C	Workshop on Causal Representation Learning, Tübingen, Germany, **Towards a Measure-Theoretic Axiomatisation of Causality**
Mar 2023, I	CISPA – Helmholtz Center for Information Security, Saarbrücken, Germany, **Towards a Measure-Theoretic Axiomatisation of Causality**
Sep 2022, I	ELISE Theory workshop on machine learning fundamentals, Antibes, France, **Kernel Conditional Mean Embeddings and Empirical Process Theory for Vector-Valued Functions**
Jul 2022, C	Saint Flour Probability Summer School, Saint Flour, France, **Empirical Process Theory for Vector-Valued Functions**
Mar 2022, I	Cornell University (Nathan Kallus), online, **Distributional Treatment Effects with Kernels**
Jul 2020, I	Petnica Summer Institute Machine Learning (Microsoft, Belgrade), online, **Kernel Methods in Machine Learning**
Feb 2020, P	Workshop on Functional Inference and Machine Intelligence, Eurecom, Antibes, France, **A Measure-Theoretic Approach to Kernel Conditional Mean Embeddings**

Reviews

ACML	2020, 2021
AoS	2021, 2023
NeurIPS	2021, 2022, 2023
ICLR	2022
AISTATS	2022 (Top 10% of reviewers), 2023
ICML	2022, 2023

Technical Skills

Programming	PYTHON, R, MATLAB
Software	LaTeX

Languages & Additional Activities

Languages	Korean (Mother Tongue), English (Bilingual), French (Intermediate), German (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