Junhyung Park

updated 15th November, 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 **MSc in Statistics**, *Seminar für Statistik*, *Dept. of Mathematics*, *ETH Zürich*, Switzerland Aug.2019 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 **MMath in Mathematics**, *Trinity College, University of Cambridge*, Cambridge, UK
 - Jun.2016 Commutative Algebra, Functional Analysis, Differential Geometry, Representation Theory, etc.
- ${\tt Oct.2012-BA\ in\ Mathematics},\ {\it Trinity\ College,\ University\ of\ Cambridge},\ {\tt Cambridge},\ {\tt UK}$
 - Jun.2015 Galois Theory, Linear Analysis, Differential Geometry, Number Fields, Complex Analysis, etc.

Work Experience

- Aug. 2023 Applied Scientist Intern, Amazon Web Services, Santa Clara, California, US
 - Dec 2023 supervised by Shiva Kasiviswanathan and Patrick Blöbaum
- Sep.2016 Junior Researcher in Statistics, Caleb ABC, Seoul, Korea
 - Jun.2017 Developed data envelopment analysis and logistic regression features on B-Box, a statistics software

Publications

- NeurIPS 2023 Park, J., Buchholz, S., Schölkopf, B. and Muandet, K. A Measure-Theoretic Axiomatisation Oral of Causality.
- Entropy 2023 Laumann, F., Von Kügelgen, J., Park, J., Schölkopf, B. and Barahona, M. Kernel-based Independence Tests for Causal Structure Learning on Functional Data.
- Preprint 2023 Dhanakshirur, M., Laumann, F., Park, J. and Barahona, M. A continuous Structural Intervention Distance to compare Causal Graphs.
 - 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)

- Nov 2023, I Leipzig University, A Measure-Theoretic Axiomatisation of Causality
- Nov 2023, I Amazon, A Measure-Theoretic Axiomatisation of Causality
- Oct 2023, I Stanford University, USA, A Measure-Theoretic Axiomatisation of Causality
- 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, USA, Distributional Treatment Effects with Kernels
- Jul 2020, I Petnica Summer Institute Machine Learning (Microsoft, Belgrade), **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

Analysis and 2023

Applications

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