DINO SEJDINOVIC

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ACADEMIC POSITIONS

School of Computer and Mathematical Sciences, Adelaide University
Professor *2022–*

The Institute of Statistical Mathematics, Tokyo
Visiting Professor *2024–*

Department of Statistics, University of Oxford
Associate Professor *2016–2022*
Lecturer *2014–2015*

Mansfield College, Oxford
Fellow and Tutor in Statistics *2016–2022*

The Alan Turing Institute, London
Turing Faculty Fellow *2016–2021*

University College, Oxford
Senior College Lecturer *2014–2015*

Gatsby Computational Neuroscience Unit, University College London
Postdoctoral Fellow *2011–2014*

Institute for Statistical Science, University of Bristol
Brunel Postdoctoral Fellow *2009–2011*

OTHER EMPLOYMENT

Goldman, Sachs & Co, London
Vice President, Operations Strategies *2013–2014*

EDUCATION

University of Bristol
PhD in Electrical and Electronic Engineering *2006–2009*

University of Sarajevo
Diplom in Mathematics and Theoretical Computer Science *2003–2006*

PROFESSIONAL SERVICE

Program Chair, Australian Data Science Network Conference (ADSN) *2023*
Area Chair, International Conference on Machine Learning (ICML) *2017, 2018, 2020*
Area Chair, Artificial Intelligence and Statistics (AISTATS) *2016, 2017, 2019*
Area Chair, Neural Information Processing Systems (NeurIPS) *2015*
Senior Associate Editor, *ACM Transactions on Probabilistic Machine Learning* *2023–*
Editorial Board Member, *Journal of Machine Learning Research* *2020–*
Selected peer-review activities:

- *Journal of Machine Learning Research; Journal of the Royal Statistical Society - Series B; Annals of Statistics; Biometrika; Journal of the American Statistical Association; Information and Inference; Statistical Science; Statistics and Computing; Geoscientific Model Development; IEEE Transactions on Information Theory; IEEE Transactions on Pattern Analysis and Machine Intelligence; Neural Computation; Journal of Causal Inference; Neural Information Processing Systems (NeurIPS); International Conference on Machine Learning (ICML); NSF: Methodology, Measurement, and Statistics Program.*

INSTITUTIONAL SERVICE

School of Computer and Mathematical Sciences, Adelaide University
Steering Committee, Adelaide Data Science Centre, 2023–
Chair, Statistics and Data Science Curriculum Working Group, 2023

Department of Statistics, University of Oxford
Equality, Diversity & Inclusion Committee, 2021–2022
IT Committee, 2021–2022
Management Team, StatML Centre for Doctoral Training, 2019–2022
Teaching Committee, 2017–2021
Chair, IT Provision Working Group, 2017–2018
MMath Mathematics & Statistics Part C Official Examiner, 2015–2018, 2021–2022
MSc in Statistical Science Admissions Committee, 2015–2022
Graduate Research Committee, 2015–2017

Mansfield College, Oxford
Member of the Governing Body, 2016–2022

GRANTS AND AWARDS

- €4.18M; ERC: iMIRACLI - Horizon 2020 European Training Network on Innovative Machine Learning to Constrain Aerosol-Cloud Climate Impacts (co-CI) *2020–2023*
- £6.16M; EPSRC: StatML - Centre for Doctoral Training in Modern Statistics and Statistical Machine Learning at Imperial College London and University of Oxford (co-I) *2019–2027*
- £43.7k; Hennes & Mauritz AB: Causal Inference and Machine Learning for Clothing Retail Industry Applications (CI) *2018–2022*
- £300k; Tencent: Collaboration on Large Scale Machine Learning (co-I) *2017–2020*

- Best Paper Award Honorable Mention, AISTATS 2022 ([28])
- Best Paper Award Honorable Mention, ICML 2019 ([53])
- Best Paper Award, ICML 2019 Workshop "Climate Change: How Can AI Help?" ([127])
- Papers with plenary/oral presentations: NeurIPS 2013 ([84], top 1.4% of submissions), NeurIPS 2014 ([80], top 1.2%), AISTATS 2016 ([72], top 6.5%), UAI 2016 ([68], top 9.5%), AISTATS 2017 ([63], top 5.3%), AISTATS 2022 ([28], top 2.6%), ICML 2023 ([11], top 2.4%), NeurIPS 2023 ([19], top 0.62%)
- 2011 IEEE Trans. Multimedia Prize Paper Award Shortlist (Top 5) for [98]
- Toshiba Research PhD Scholarship (2006–2009)
- Golden Badge Award of the University of Sarajevo, 2007
- The Most Successful Student / Valedictorian of the '07 Class at the University of Sarajevo (1/4,517)

SUPERVISION AND EXAMINATION OF RESEARCH

Current Research Group
Erdun Gao (Postdoc, Adelaide), 2024–
Gaurangi Anand (Postdoc, Adelaide), 2024–
Vinh Nguyen (PhD student, Adelaide), 2024–
Peter Moskvichev (MPhil student, Adelaide), 2024–
Vivienne Niejalke (MPhil student, Adelaide), 2023–
Jake Fawkes (DPhil student, Oxford), 2020–

Past Supervision of Doctoral Dissertations

1. Veit Wild, *Generalised Variational Inference in Infinite Dimensions*, DPhil, Department of Statistics, University of Oxford, 2024
2. Shahine Bouabid, *Transforming Kernel-Based Learners to Incorporate Domain Knowledge from Climate Science*, DPhil, Department of Statistics, University of Oxford, 2024

3. Valerie Bradley, *Quantifying and Mitigating Selection Bias in Probability and Nonprobability Samples*, DPhil, Department of Statistics, University of Oxford, 2024
4. Siu Lun Chau, *Towards Trustworthy Machine Learning with Kernels*, DPhil, Department of Statistics, University of Oxford, 2023
5. Robert Hu, *Large Scale Methods for Kernels, Causal Inference and Survival Modelling*, DPhil, Department of Statistics, University of Oxford, 2022
6. Jean-Francois Ton, *Causal Reasoning and Meta Learning using Kernel Mean Embeddings*, DPhil, Department of Statistics, University of Oxford, 2022
7. Anthony Caterini, *Expanding the Capabilities of Normalizing Flows in Deep Generative Models and Variational Inference*, DPhil, Department of Statistics, University of Oxford, 2021
8. David Rindt, *Nonparametric Independence Testing and Regression for Time-to-Event Data*, DPhil, Department of Statistics, University of Oxford, 2021
9. Zhu Li, *On the Properties of Random Feature Methods*, DPhil, Department of Statistics, University of Oxford, 2021
10. Qinyi Zhang, *Kernel Based Hypothesis Tests: Large-Scale Approximations and Bayesian Perspectives*, DPhil, Department of Statistics, University of Oxford, 2020
11. Ho Chung Law, *Testing and Learning on Distributional and Set Inputs*, DPhil, Department of Statistics, University of Oxford, 2020
12. Jovana Mitrović, *Representation Learning with Kernel Methods*, DPhil, Department of Statistics, University of Oxford, 2019

Past Supervision of Master and Undergraduate Research Dissertations

1. Zhuoya Zhao, *An Investigation of Collider Regression*, Honours Thesis, Bachelor of Mathematical Sciences, Adelaide University, 2024
2. Nikhil Kapoor, *Illuminating the Stars: Predicting Stellar Luminosity with Explainable Machine Learning*, Master of Data Science, Adelaide University, 2024
3. Sarun Srikhom, *Shapley Values for Explaining Machine Learning Models*, Master of Data Science, Adelaide University, 2024
4. Pham Thuy Tien Le, *Explaining Predictions of Used Vehicle Prices by SHAP methods*, Master of Data Science, Adelaide University, 2024
5. Ky Phong Mai, *A Comprehensive Study of Shapley Value Explanations in Image Classification*, Master of Data Science, Adelaide University, 2024
6. Yu Zhang, *SHAP: Interpretable Deep Learning for Enhanced Robustness and Security*, Master of Data Science, Adelaide University, 2024
7. Haisen Liang, *Explaining Political Ideology with Shapley Values*, Master of Data Science, Adelaide University, 2024
8. Fu Chuen Li, *Computational Efficiency of Shapley Value Estimation*, Master of Data Science, Adelaide University, 2023
9. Nguyen Phuc Thai, *A Review of Methods for Uncertainty Quantification when Estimating Shapley Values*, Master of Data Science, Adelaide University, 2023
10. Anubhav Dattagupta, *Shapley Values for Explaining Machine Learning Models: Understanding the Impact of Rule Changes in Cricket*, Master of Data Science, Adelaide University, 2023
11. Ka Man Becky Pang, *SHAP Explanation for Horse Racing Predictive Models*, Master of Data Science, Adelaide University, 2023
12. Hanyue Zhang, *Shapley Values for Explaining Formula One Racing Predictive Models*, Master of Data Science, Adelaide University, 2023
13. Tashreque Mohammed Haq, *Assessing Player Contributions in Soccer via the use of Shapley Values*, Master of Data Science, Adelaide University, 2023
14. Diego Martinez Taboada, *Uncertainty Quantification for the Multi-Armed Bandit and the Off-Policy Evaluation Problems*, MSc in Statistical Science, University of Oxford, 2022

15. Ewan Yeaxlee, *Estimation of Stratum Means via Weight Estimation Methods and Conditional Mean Embeddings*, MSc in Statistical Science, University of Oxford, 2022
16. Qi Chen, *A HSIC-based Test for Causal Association on Verma Graph*, MMath Mathematics & Statistics (Part C Dissertation), University of Oxford, 2022
17. Oscar Yung, *MMD Two-Sample Testing in Regression Discontinuity Design*, MMath Mathematics & Statistics (Part C Dissertation), University of Oxford, 2022
18. Aidan Sabety-Mass, *Quantile Modelling with Kernel Methods and Meta Learning*, MSc in Statistical Science, University of Oxford, 2021
19. Ziru Zhou, *Demand and Capacity Modelling in Health and Social Care Services*, MSc in Statistical Science, University of Oxford, 2021
20. Samuel Cohen, *Learning Coupled Deep Generative Models*, MSc in Statistical Science, University of Oxford, 2019
21. Veit Wild, *On the Connections between Reproducing Kernel Hilbert Spaces and Gaussian Processes in Large Scale Approximations*, MSc in Statistical Science, University of Oxford, 2019
22. Enis Nazif, *Musical Source Separation using Neural Networks and Non-Negative Matrix Factorisation*, MSc in Statistical Science, University of Oxford, 2018
23. Yuanheng Tang, *Distribution Regression for Ecological Inference with an Application to Historical Voting Records*, MSc in Statistical Science, University of Oxford, 2018
24. Daniel Thorns, *Distribution Regression for Crop Yield Prediction*, MSc in Statistical Science, University of Oxford, 2018
25. Nicholas Yung, *Expectation Propagation and its Application to Ranking Models*, MMath Mathematics & Statistics (Part C Dissertation), University of Oxford, 2018
26. Yun Kang, *Determinantal Point Processes and Their Scalable Sampling Algorithms*, MMath Mathematics & Statistics (Part C Dissertation), University of Oxford, 2018
27. Jean-Francois Ton, *Nonstationary Spectral Features for Spatio-Temporal Modelling*, MSc in Applied Statistics, University of Oxford, 2017
28. Danai Antoniou, *Text Mining and Spatial Modelling for Airbnb Pricing Prediction*, MSc in Applied Statistics, University of Oxford, 2017
29. Thomas Uriot, *Predicting Conflict Intensity Fitting Neural Networks on Real-World Video Data*, MSc in Applied Statistics, University of Oxford, 2017
30. Tim Rudner, *Doubly Stochastic Variational Fourier Features for Deep Gaussian Processes*, MSc in Applied Statistics, University of Oxford, 2017
31. Kezia Burke, *Multilevel Analysis of Population in Ireland*, MSc in Applied Statistics, University of Oxford, 2017
32. Jake Stockwin, *Gaussian Processes for Bayesian Optimisation: Principles and Application to a Two-Agent Dose Finding Problem*, MMath Mathematics & Statistics (Part C Dissertation), University of Oxford, 2017
33. Nikola Konstantinov, *Kernel Dependence Measures for Unsupervised Learning*, MMath Mathematics & Statistics (Part C Dissertation), University of Oxford, 2017
34. Gabriel Zucker, *Using Machine Learning to Improve Targeting of Reemployment Programs in the United States*, MSc in Applied Statistics, University of Oxford, 2016
35. Thomas Lewin, *Difficulty and Skill in a Mobile Match-Three Game: A Machine Learning Approach*, MSc in Applied Statistics, University of Oxford, 2016
36. Hiroaki Imai, *Quadrature Rules Based on Determinantal Point Processes*, MSc in Applied Statistics, University of Oxford, 2016
37. Lukas Kobis, *Inference and Learning for Hidden Markov Models: Methodological and Computational Considerations*, MMath Mathematics & Computer Science (Part B Extended Essay), University of Oxford, 2016
38. Qinyi Zhang, *Kernel-Based Association Tests and Applications to Genomic Data*, MSc in Applied Statistics, University of Oxford, 2015

39. Artur Kotlicki, *Fast Kernel Adaptive Metropolis-Hastings Algorithm*, MSc in Applied Statistics, University of Oxford, 2015
40. Rishabh Kabra, *Prediction of Trip Outcomes from Initial Partial Trajectories*, MSc in Applied Statistics, University of Oxford, 2015

Examination of Research Dissertations

1. Yu-Hsiu Tseng, *Advancements in Variational Bayesian Computation: Theory and Applications in Hybrid and Particle-based Methods*, PhD, School of Computer Science, University of Sydney (external examiner), 2024
2. Emiliano Diaz Salas-Porras, *Towards Causal Discovery for Earth System Sciences*, PhD, School of Engineering, University of Valencia (external examiner), 2023
3. David Widmann, *Reliable Uncertainty Quantification in Statistical Learning*, PhD, Department of Information Technology, Uppsala University (external examiner / opponent), 2023
4. Alexander Camuto, *Understanding Gaussian Noise in Neural Networks*, DPhil, Department of Statistics, University of Oxford (internal examiner), 2022
5. Simone Rossi, *Improving Scalability and Inference in Probabilistic Deep Models*, PhD, Sorbonne University / EURECOM (external examiner), 2022
6. Fredrik Hallgren, *Kernel PCA and the Nyström method*, PhD, Department of Statistical Science, University College London (external examiner), 2021
7. Edward Wagstaff, *Exploiting Prior Knowledge in Machine Learning Model Design*, DPhil, Department of Engineering Science, University of Oxford (internal examiner), 2021
8. Alex Lambert, *Learning Function-Valued Functions in Reproducing Kernel Hilbert Spaces with Integral Losses: Application to Infinite Task Learning*, PhD, Institute Polytechnique de Paris / Telecom Paris (external examiner), 2021
9. Dominic Richards, *Multi-Agent Learning*, DPhil, Department of Statistics, University of Oxford (internal examiner), 2021
10. Kelvin Hsu, *Bayesian Perspectives on Conditional Kernel Mean Embeddings: Hyperparameter Learning and Probabilistic Inference*, PhD, School of Computer Science, University of Sydney (external examiner), 2020
11. Eszter Vertes, *Probabilistic Learning and Computation in Brains and Machines*, PhD, Gatsby Computational Neuroscience Unit, University College London (external examiner), 2020
12. Hyunjik Kim, *Interpretable Models in Probabilistic Machine Learning*, DPhil, Department of Statistics, University of Oxford (internal examiner), 2019
13. Toni Karvonen, *Kernel-Based and Bayesian Methods for Numerical Integration*, PhD, Department of Electrical Engineering and Automation, Aalto University (external examiner), 2019
14. Kurt Cutajar, *Broadening the Scope of Gaussian Processes for Large-Scale Learning*, PhD, Sorbonne University / EURECOM (external examiner), 2019
15. Xiaoyu Lu, *Modelling, Inference and Optimization in Probabilistic Machine Learning*, DPhil, Department of Statistics, University of Oxford (internal examiner), 2019
16. Mark McLeod, *Optimizing Bayesian Optimization*, DPhil, Department of Engineering Science, University of Oxford (internal examiner), 2018
17. Tammo Rukat, *Logical Factorisation Machines: Probabilistic Boolean Factor Models for Binary Data*, DPhil, Department of Statistics, University of Oxford (internal examiner), 2018
18. Martin Stražar, *Learning the Kernel by Low-Rank Matrix Approximation*, PhD, Faculty of Computer and Information Science, University of Ljubljana (external examiner), 2018
19. Yves-Laurent Kom Samo, *Advances in Kernel Methods: Towards General-Purpose and Scalable Models*, DPhil, Department of Engineering Science, University of Oxford (internal examiner), 2017
20. Bertrand Nortier, *Second Order Proximal Methods Applied to Elastic Net Penalised Vector Generalised Linear Models*, MSc by Research, Department of Statistics, University of Oxford (internal examiner), 2016

TEACHING

Adelaide University

STATS 3006/4106/7059 Mathematical Statistics (3rd year)	*2024*
MATHS 2203 Advanced Mathematical Perspectives II (2nd year)	*2023–2024*
STATS 2107/7107 Statistical Modelling and Inference (2nd year)	*2023*

University of Oxford

Computational Statistics (Part B/3rd year+MSc)	*2021/22*
Statistics and Data Analysis (Prelims/1st year)	*2017/18–2021/22*
Machine Learning (Centre for Doctoral Training)	*2016/17, 2019/20–2021/22*
Foundations of Statistical Inference (Part B/3rd year+MSc)	*2019/20*
Advanced Topics in Statistical Machine Learning (Part C/4th year+MSc)	*2017/18–2018/19*
Statistical Data Mining and Machine Learning (Part C/4th year+MSc)	*2014/15–2016/17*
Tutor (Mansfield College), *Probability, Statistics*	*2015/16–2021/22*
Tutor (University College), *Probability, Statistics, Graph Theory*	*2014/15–2015/16*

University College London

Advanced Topics in Machine Learning: Theory of Kernel Methods (MSc)	*2011/12–2013/14*
Adaptive Modelling of Complex Data: Classification (an introductory graduate course)	*2013/14*

University of Bristol

Graphical Models and Complex Stochastic Systems (Centre for Doctoral Training)	*2010/11*
Tutor, *Linear Algebra and Geometry, Probability I, Statistics I*	*2010/11*
Tutor, *Analysis I, Further Topics in Analysis*	*2009/10*
Demonstrator, *Computing, Software Engineering in C*	*2007/08–2008/09*

University of Sarajevo

Demonstrator, *Mathematical Analysis / Analysis I*	*2005/06*

SELECTED INVITED TALKS

Gatsby Unit, University College London	*07/2024*
Dept of Computer Science, RPTU Kaiserslautern-Landau	*03/2024*
Nanyang Technological University, Singapore	*03/2024*
Business Analytics Seminar, University of Sydney	*02/2024*
Data 61, CSIRO, Sydney	*02/2024*
Institute of Mathematical Statistics Asia-Pacific Rim Meeting, Melbourne (invited session)	*01/2024*
Australian Institute for Machine Learning, Adelaide	*06/2023*
Department of Information Technology, Uppsala University	*06/2023*
NIASRA, University of Wollongong	*03/2023*
Workshop on Functional Inference and Machine Intelligence, Tokyo	*03/2023*
Adelaide Data Science Centre, Adelaide University	*03/2023*
Mathematical Sciences Colloquium, Adelaide University	*11/2022*
CSIRO MARS 2022, ML & AI Future Science Platform Conference, Sydney (keynote)	*05/2022*
KTH Royal Institute of Technology, Stockholm	*03/2022*
Data Science Seminar, London School of Economics	*03/2022*
Secondmind, Cambridge	*12/2021*
ELLIS Workshop on Machine Learning in Earth and Climate Sciences, Oberwolfach	*03/2020*
Workshop on Functional Inference and Machine Intelligence, Sophia Antipolis	*02/2020*
Northern Lights Deep Learning Workshop (NLDL), Tromsø (keynote)	*01/2020*
Statistics Seminar, School of Mathematics, Cardiff University	*01/2020*
NeurIPS Meetup, Oxford (keynote)	*12/2019*
Royal Statistical Society Discussion Meeting (seconding the vote of thanks)	*10/2019*
European Meeting of Statisticians, Palermo (invited session)	*07/2019*
Gatsby Unit 21st Birthday Symposium, London	*07/2019*
Machine Learning Meetup, London	*06/2019*

Google DeepMind, London	*06/2019*
EURECOM, Sophia Antipolis	*04/2019*
Workshop on Functional Inference and Machine Intelligence, Tokyo	*03/2019*
KERMES - Advances in Kernel Methods for Structured Data, UPM Madrid	*02/2019*
CSML Seminar, University College London	*01/2019*
Machine Learning Tutorial, Dept of Computing, Imperial College London	*11/2018*
Advances in Kernel Methods Workshop, Sheffield	*09/2018*
Intelligent Systems Laboratory Seminar, University of Bristol	*06/2018*
The Institute of Science and Technology Austria	*06/2018*
SFB Data Assimilation Colloquium, Universität Potsdam	*05/2018*
Statistical Scalability Programme, Isaac Newton Institute, University of Cambridge	*05/2018*
Theory and Algorithms in Data Science Seminar, Alan Turing Institute	*10/2017*
School of Mathematics and Statistics, University of Sheffield	*10/2017*
Mathematical, Physical and Life Sciences Division Summer Reception, Oxford	*06/2017*
Max Planck Institute for Intelligent Systems, Tübingen	*05/2017*
Regularization Methods for Machine Learning Workshop, Oslo	*05/2017*
OxWaSP-Amazon Workshop, Amazon Development Centre, Berlin	*03/2017*
Statistical Learning Workshop, Lancaster	*03/2017*
Dagstuhl Seminar 16481, Leibniz-Zentrum für Informatik, Schloss Dagstuhl	*12/2016*
Royal Statistical Society Conference, Manchester (invited session)	*09/2016*
The Institute of Statistical Mathematics, Tokyo	*03/2016*
Dept of Statistics, University of Leeds	*11/2015*
OxWaSP Symposium, Dept of Statistics, University of Warwick	*10/2015*
Dept of Power, Electronics and Communication Engineering, University of Novi Sad	*06/2015*
Dagstuhl Seminar 15152, Leibniz-Zentrum für Informatik, Schloss Dagstuhl	*04/2015*
Dept of Statistics, London School of Economics	*02/2015*
UCL Workshop on the Theory of Big Data, London	*01/2015*
Machine Learning Group, Technische Universität Berlin	*07/2014*
The Shogun Machine Learning Toolbox Workshop, c-base, Berlin	*07/2014*
Workshop on Kernel Methods for Big Data, Université Lille	*03/2014*
Dept of Statistical Science, University College London	*11/2012*
CSML Seminar, University College London	*10/2012*
Signal Processing and Communications Laboratory, University of Cambridge	*02/2012*
International Conference of the ERCIM WG on Computing & Statistics (invited session)	*12/2011*
Dept of Electrical and Electronic Engineering, Imperial College London	*07/2011*
Hausdorff Center for Mathematics, University of Bonn	*02/2011*
Gatsby Unit, University College London	*02/2011*
Dept of Statistics, University of Oxford	*12/2010*
Institute for Statistical Science, University of Bristol	*02/2010*
International Mobile Multimedia Communications Conference (invited session)	*09/2009*
Toshiba Research Europe Telecommunications Research Laboratory, Bristol	*08/2009*
Centre for Communications Research, University of Bristol	*11/2008*

PUBLICATIONS

Google Scholar profile, ORCID: 0000-0001-5547-9213

Published / In Press

[1] S. Bouabid, D. Sejdinovic, and D. Watson-Parris, "FaIRGP: A Bayesian Energy Balance Model for Surface Temperatures Emulation," *Journal of Advances in Modeling Earth Systems*, vol. 16, no. 6, 2024. DOI: 10.1029/2023MS003926.

[2] S. Bouabid, D. Watson-Parris, S. Stefanovic, A. Nenes, and D. Sejdinovic, "Aerosol optical depth disaggregation: toward global aerosol vertical profiles," *Environmental Data Science*, vol. 3, e16, 2024. DOI: 10.1017/eds.2024.15.

[3] D. Craig, H. Moon, F. Fedele, *et al.*, "Bridging the Reality Gap in Quantum Devices with Physics-Aware Machine Learning," *Physical Review X*, vol. 14, p. 011 001, 1 2024. DOI: 10.1103/PhysRevX.14.011001.

[4] J. Fawkes, R. Hu, R. J. Evans, and D. Sejdinovic, "Doubly Robust Kernel Statistics for Testing Distributional Treatment Effects," *Transactions on Machine Learning Research*, 2024, ISSN: 2835–8856.

[5] R. Hu, D. Sejdinovic, and R. J. Evans, "A Kernel Test for Causal Association via Noise Contrastive Backdoor Adjustment," *Journal of Machine Learning Research*, vol. 25, no. 160, pp. 1–56, 2024.

[6] J. Lenhardt, J. Quaas, and D. Sejdinovic, "Marine cloud base height retrieval from MODIS cloud properties using machine learning," *Atmospheric Measurement Techniques*, vol. 17, no. 18, pp. 5655–5677, 2024. DOI: 10.5194/amt-17-5655-2024.

[7] R. Oliveira, D. Sejdinovic, D. Howard, and E. Bonilla, "Bayesian Adaptive Calibration and Optimal Design," in *Advances in Neural Information Processing Systems (NeurIPS)*, 2024.

[8] B. Severin, D. T. Lennon, L. C. Camenzind, *et al.*, "Cross-architecture tuning of silicon and SiGe-based quantum devices using machine learning," *Scientific Reports*, vol. 14, no. 1, p. 17 281, Jul. 2024, ISSN: 2045–2322. DOI: 10.1038/s41598-024-67787-z.

[9] E. Shimizu, K. Fukumizu, and D. Sejdinovic, "Neural-Kernel Conditional Mean Embeddings," in *International Conference on Machine Learning (ICML)*, 2024, PMLR 235:45040–45 059.

[10] R. Tsuchida, C. S. Ong, and D. Sejdinovic, "Exact, Fast and Expressive Poisson Point Processes via Squared Neural Families," in *Proceedings of the AAAI Conference on Artificial Intelligence*, vol. 38, 2024, pp. 20 559–20 566. DOI: 10.1609/aaai.v38i18.30041.

[11] S. Bouabid, J. Fawkes, and D. Sejdinovic, "Returning The Favour: When Regression Benefits From Probabilistic Causal Knowledge," in *International Conference on Machine Learning (ICML)*, 2023, PMLR 202:2885–2913.

[12] S. L. Chau, K. Muandet, and D. Sejdinovic, "Explaining the Uncertain: Stochastic Shapley Values for Gaussian Process Models," in *Advances in Neural Information Processing Systems (NeurIPS)*, 2023.

[13] T. Fernandez, A. Gretton, D. Rindt, and D. Sejdinovic, "A Kernel Log-Rank Test of Independence for Right-Censored Data," *Journal of the American Statistical Association*, vol. 118, no. 542, pp. 925–936, 2023. DOI: 10.1080/01621459.2021.1961784.

[14] R. Hu and D. Sejdinovic, "Towards Deep Interpretable Features," *Journal of Computational Mathematics and Data Science*, vol. 6, p. 100 067, 2023. DOI: 10.1016/j.jcmds.2022.100067.

[15] Z. Li, W. Su, and D. Sejdinovic, "Benign Overfitting and Noisy Features," *Journal of the American Statistical Association*, vol. 118, no. 544, pp. 2876–2888, 2023. DOI: 10.1080/01621459.2022.2093206.

[16] A. Perez-Suay, P. Gordaliza, J.-M. Loubes, D. Sejdinovic, and G. Camps-Valls, "Fair Kernel Regression through Cross-Covariance Operators," *Transactions on Machine Learning Research*, 2023, ISSN: 2835-8856.

[17] J. Schuff, D. T. Lennon, S. Geyer, *et al.*, "Identifying Pauli Spin Blockade using Deep Learning," *Quantum*, vol. 7, p. 1077, 2023, ISSN: 2521-327X. DOI: 10.22331/q-2023-08-08-1077.

[18] R. Tsuchida, C. S. Ong, and D. Sejdinovic, "Squared Neural Families: A New Class of Tractable Density Models," in *Advances in Neural Information Processing Systems (NeurIPS)*, 2023.

[19] V. D. Wild, S. Ghalebikesabi, D. Sejdinovic, and J. Knoblauch, "A Rigorous Link between Deep Ensembles and (Variational) Bayesian Methods," in *Advances in Neural Information Processing Systems (NeurIPS)*, 2023.

[20] S. L. Chau, M. Cucuringu, and D. Sejdinovic, "Spectral Ranking with Covariates," in *European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML-PKDD)*, 2022. DOI: 10.1007/978-3-031-26419-1_5.

[21] S. L. Chau, J. Gonzalez, and D. Sejdinovic, "Learning Inconsistent Preferences with Gaussian Processes," in *International Conference on Artificial Intelligence and Statistics (AISTATS)*, 2022, PMLR 151:2266–2281.

[22] S. L. Chau, R. Hu, J. Gonzalez, and D. Sejdinovic, "RKHS-SHAP: Shapley Values for Kernel Methods," in *Advances in Neural Information Processing Systems (NeurIPS)*, 2022.

[23] J. Cortés-Andrés, G. Camps-Valls, S. Sippel, E. M. Székely, D. Sejdinovic, E. Díaz, A. Pérez-Suay, Z. Li, M. D. Mahecha, and M. Reichstein, "Physics-aware nonparametric regression models for earth data analysis," *Environmental Research Letters*, vol. 17, no. 5, p. 054 034, 2022. DOI: 10.1088/1748-9326/ac6762.

[24] J. Fawkes, R. Evans, and D. Sejdinovic, "Selection, ignorability and challenges with causal fairness," in *Conference on Causal Learning and Reasoning (CLeaR)*, 2022, PMLR 177:275–289.

[25] R. Hu, S. L. Chau, J. F. Huertas, and D. Sejdinovic, "Explaining Preferences with Shapley Values," in *Advances in Neural Information Processing Systems (NeurIPS)*, 2022.

[26] R. Hu, S. L. Chau, D. Sejdinovic, and J. A. Glaunes, "Giga-scale Kernel Matrix Vector Multiplication on GPU," in *Advances in Neural Information Processing Systems (NeurIPS)*, 2022.

[27] Z. Li, A. Perez-Suay, G. Camps-Valls, and D. Sejdinovic, "Kernel Dependence Regularizers and Gaussian Processes with Applications to Algorithmic Fairness," *Pattern Recognition*, vol. 132, p. 108 922, 2022. DOI: 10.1016/j.patcog.2022.108922.

[28] D. Rindt, R. Hu, D. Steinsaltz, and D. Sejdinovic, "Survival regression with proper scoring rules and monotonic neural networks," in *International Conference on Artificial Intelligence and Statistics (AISTATS)*, 2022, PMLR 151:1190–1205.

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