

# Fredrik D. Johansson

## Associate professor

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Computer Science & Engineering  
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## RESEARCH INTERESTS

My research is focused on advancing machine learning methods and theory to improve decision making with applications in healthcare. I have also worked on machine learning for use with graph data, reinforcement learning, algorithmic fairness and natural language processing.

## APPOINTMENTS

- 2023– **Associate Professor**  
Computer Science & Engineering. Chalmers University of Technology, Sweden.
- 2019–2023 **Assistant Professor**  
Computer Science & Engineering. Chalmers University of Technology, Sweden.
- 2024– **Deputy Director**  
2021–2024 **Scientific advisor, Management group**  
Chalmers AI Research Centre
- 2021–2023 **Profile leader: Digitalization, Big Data & AI**  
Health Engineering Area of Advance, Chalmers
- 2017–2019 **Postdoctoral Associate**  
Institute for Medical Eng. & Science, and CSAIL. Massachusetts Institute of Technology.  
Advisor: David Sontag

## EDUCATION

- 2017 **Ph.D.** Computer Science & Engineering. Chalmers University of Technology, Sweden.  
Advisor: Devdatt Dubhashi. Thesis: *Learning with Geometric Embeddings of Graphs*
- 2012 **M.Sc.** Computer Science & Engineering. Chalmers University of Technology, Sweden.

## VISITING POSITIONS

**2015 Visiting Research Scholar**

Clinical Machine Learning Group. Department of Computer Science, New York University.  
Advisor: David Sontag

Columbia Machine Learning Lab. Department of Computer Science, Columbia University.  
Advisor: Tony Jebara.

**PUBLICATIONS****PEER-REVIEWED JOURNAL ARTICLES**

- 1 A Daoud, FD Johansson. The impact of austerity on children: Uncovering effect heterogeneity by political, economic, and family factors in low-and middle-income countries. *Social Science Research*, 2024.
- 2 DH Solomon, H Guan, FD Johansson, L Santacroce, W Malley, L Guo, H Litman. Assessing clusters of comorbidities in rheumatoid arthritis: a machine learning approach. *Arthritis Research & Therapy*, 2024.
- 3 A Matsson, D H. Solomon, M M. Crabtree, R W. Harrison, H J. Litman, F D. Johansson. Patterns in the Sequential Treatment of Patients With Rheumatoid Arthritis Starting a Biologic or Targeted Synthetic Disease-Modifying Antirheumatic Drug: 10-Year Experience From a US-Based Registry. *ACR Open Rheumatology*, 2023.
- 4 A Daoud, F Jordán, M Sharma, F Johansson, D Dubhashi, S Paul, Subhashis B. Using Satellite Images and Deep Learning to Measure Health and Living Standards in India. *Social Indicators Research*, 2023.
- 5 S Ek, D Zachariah, FD Johansson, P Stoica. Off-Policy Evaluation with Out-of-Sample Guarantees. *Transactions on Machine Learning Research*, TMLR, 2023.
- 6 NM Kinyanjui, E Carlsson, FD Johansson. Fast Treatment Personalization with Latent Bandits in Fixed-Confidence Pure Exploration. *Transactions on Machine Learning Research*, TMLR, 2023.
- 7 A Breitholtz & FD Johansson. Practicality of generalization guarantees for unsupervised domain adaptation with neural networks. *Transactions on Machine Learning Research*, TMLR, 2022.
- 8 FD Johansson, U Shalit, N Kallus, D Sontag, Generalization Bounds and Representation Learning for Estimation of Potential Outcomes and Causal Effects. *Journal of Machine Learning Research JMLR*, 2022.
- 9 HV Dansson, L Stempfle, H Egilsdóttir, A Schliep, E Portelius, K Blennow, H Zetterberg, F D Johansson, Predicting Progression & Cognitive Decline in Amyloid-Positive Patients with Alzheimer's Disease. *Alzheimer's Research & Therapy*, 2021.
- 10 Johansson, F.D., Collins, J.E., Yau, V., Guan, H., Kim, S.C., Losina, E., Sontag, D., Stratton, J., Trinh, H., Greenberg, J. and Solomon, D.H., Predicting Response to Tocilizumab Monotherapy in Rheumatoid Arthritis: A Real-World Data Analysis Using Machine Learning. *The Journal of Rheumatology*, 2021.

- 11 Solomon, D.H., Xu, C., Collins, J., Kim, S.C., Losina, E., Yau, V. and Johansson, F.D., The sequence of disease-modifying anti-rheumatic drugs: pathways to and predictors of tocilizumab monotherapy. *Arthritis Research & Therapy*, 23(1), pp.1-9, 2021.
- 12 JE Collins, FD Johansson, S Gale, S Kim, S Shrestha, D Sontag, J Stratton, H Trinh, C Xu, E Losina, DH Solomon *ACR open rheumatology*, 2(2), pp.65-73, 2021.
- 13 N. Kriege, F D. Johansson, C. Morris, A Survey on Graph Kernels. *Applied Network Science*, 5(1), pp.1-42, 2020.
- 14 F D. Johansson, Machine Learning Analysis of Heterogeneity in the Effect of Student Mindset Interventions. *Observational Studies* 5, 71–82, 2019.
- 15 O Gottesman, F Johansson, M Komorowski, A Faisal, D Sontag, F Doshi-Velez, L A Celi, Guidelines for reinforcement learning in healthcare. *Nature Medicine* 25 (1), 16–18, 2019.
- 16 N. Tahmasebi, L. Borin, G. Capannini, D. Dubhashi, P. Exner, M. Forsberg, Gerhard Gossen, F. D. Johansson, R. Johansson, M. Kågebäck, O. Mogren, P. Nugues, T. Risse. Visions and Open Challenges for a Knowledge-Based Culturomics. *International Journal on Digital Libraries*, 2015.

#### PEER-REVIEWED CONFERENCE CONTRIBUTIONS

- 17 A Matsson, L Stempfle, Y Rao, ZR Margolin, HJ Litman, FD Johansson. How Should We Represent History in Interpretable Models of Clinical Policies? In *Machine Learning for Health, ML4H*, 2024.
- 18 FD Johansson. IncomeSCM: From tabular data set to time-series simulator and causal estimation benchmark. In *Advances in Neural Information Processing Systems, NeurIPS*, 2024.
- 19 H Bergström, E Carlsson, D Dubhashi, FD Johansson. Active Preference Learning for Ordering Items In-and Out-of-sample. In *Advances in Neural Information Processing Systems, NeurIPS*, 2024.
- 20 L Stempfle, FD Johansson. MINTY: Rule-based Models that Minimize the Need for Imputing Features with Missing Values. In *The 27th International Conference on Artificial Intelligence and Statistics, AISTATS*, 2024.
- 21 E Carlsson, D Basu, FD Johansson, D Dubhashi. Pure Exploration in Bandits with Linear Constraints. In *The 27th International Conference on Artificial Intelligence and Statistics, AISTATS*, 2024.
- 22 CT Jerzak, FD Johansson & A Daoud. Image-based Treatment Effect Heterogeneity. *Causal Learning and Reasoning, CLear*, 2023.
- 23 MB Pettersson, M Kakoei, J Ortheden, FD Johansson, A Daoud. Time series of satellite imagery improve deep learning estimates of neighborhood-level poverty in africa. In *Proceedings of the Thirty-Second International Joint Conference on Artificial Intelligence, IJCAI*, 2023.
- 24 L Stempfle & FD Johansson. Sharing Pattern Submodels for Prediction with Missing Values. *TProc. of the 37th AAAI Conference on Artificial Intelligence, AAAI*, 2023.
- 25 B Jung & FD Johansson. Efficient learning of nonlinear prediction models with time-series privileged information. In *Proc. of Neural Information Processing Systems, NeurIPS*, 2022.
- 26 A Matsson, FD Johansson. Case-based off-policy policy evaluation using prototype learning. In *Uncertainty in Artificial Intelligence, UAI*, 2022.

- 27 N Mwai Kinyanjui, FD Johansson. ADCB: An Alzheimer's disease simulator for benchmarking observational estimators of causal effects. In *Proceedings of Conference on Health, Inference, and Learning*, CHIL, 2022.
- 28 R Karlsson, M Willbo, Z Hussain, RG Krishnan, D Sontag, FD Johansson. Using Time-Series Privileged Information for Provably Efficient Learning of Prediction Models. In *The 25th International Conference on Artificial Intelligence and Statistics*, AISTATS, 2022.
- 29 E Carlsson, D Dubhashi, FD Johansson. Learning Approximate and Exact Numeral Systems via Reinforcement Learning. In *Proceedings of the Annual Meeting of the Cognitive Science Society*, CogSci, 2021.
- 30 E Carlsson, D Dubhashi, FD Johansson. Thompson Sampling for Bandits with Clustered Arms. In *Proceedings of the Thirtieth International Joint Conference on Artificial Intelligence*, IJCAI, 2021.
- 31 Samuel Håkansson, Viktor Lindblom, Omer Gottesman, Fredrik D. Johansson. Learning to search efficiently for causally near-optimal treatments. In *Proc. of Neural Information Processing Systems*, NeurIPS, 2020.
- 32 Maggie Makar, Fredrik D. Johansson, John Guttag, David Sontag. Estimation of Bounds on Potential Outcomes For Decision Making. In *Proc. of the International Conference on Machine Learning*, ICML, 2020.
- 33 M. Oberst, FD. Johansson, D. Wei, T. Gao, G. Brat, D. Sontag, KR. Varshney. Characterization of Overlap in Observational Studies. In *Proc. of Artificial Intelligence and Statistics*, AISTATS, 2020.
- 34 J Collins, F Johansson, S Gale, S Kim, S Shrestha, D Sontag, J Stratton, T Huong, C Xu, E Losina, D Solomon. Predicting Remission Among Patients With Rheumatoid Arthritis Starting Tocilizumab Monotherapy: Model Derivation and Validation Using Conventional Regression and Machine Learning. *Annals of the Rheumatic Diseases* 2019;78:727, 2019.
- 35 F D. Johansson, D. Sontag, R. Ranganath. Support and Invertibility in Domain-Invariant Representations. In *Proc. of Artificial Intelligence and Statistics*, AISTATS, 2019.
- 36 I. Chen, F D. Johansson, D. Sontag. Why is my classifier discriminatory? In *Proc. of Neural Information Processing Systems*, NeurIPS, 2018. Awarded spotlight talk.
- 37 U. Shalit, F D. Johansson, D. Sontag. Estimating individual treatment effect: generalization bounds and algorithms. In *Proc. of the International Conference on Machine Learning*, ICML, 2017
- 38 A. Panahi, D. Dubhashi, F D. Johansson, C. Bhattacharyya. Clustering by Sum of Norms: Stochastic Incremental Algorithm, Convergence and Cluster Recovery. In *Proc. of the International Conference on Machine Learning*, ICML, 2017
- 39 F D. Johansson, U. Shalit, D. Sontag. Learning Representations for Counterfactual Inference. In *Proc. of the International Conference on Machine Learning*, ICML, 2016
- 40 F D. Johansson, A. Chatteraj, C. Bhattacharyya, D. Dubhashi. Weighted Theta Functions and Embeddings with Applications to Max-Cut, Clustering and Summarization. In *Proc. of Neural Information Processing Systems*, NeurIPS, 2015.
- 41 L. Hermansson, F D. Johansson and O. Watanabe Generalized Shortest Path Kernel on Graphs. In *Proc. of the International Conference on Discovery Science*, 2015.

- 42 F. Johansson, D. Dubhashi. Learning with similarity functions on graphs using matchings of geometric embeddings. In *Proc. of the International Conference on Knowledge Discovery and Data Mining, KDD*, 2015.
- 43 F. Johansson, V. Jethava, D. Dubhashi, C. Bhattacharyya. Global graph kernels using geometric embeddings. In *Proc. of the International Conference on Machine Learning, ICML*, 2014.
- 44 F. Axelsson, B. Rydback, F. Johansson, J. Bengtsson, S. Marinov. Data-driven Coreference Resolution for Swedish. In *Proc of the Swedish Language Technology Conference, SLTC*, 2014.
- 45 L. Hermansson, T. Kerola, F. Johansson, V. Jethava, D. Dubhashi. Entity Disambiguation in Anonymized Graphs Using Graph Kernels. In *Proc of the International Conference on Information and Knowledge Management, CIKM* 2013.

#### INVITED CONFERENCE CONTRIBUTIONS

- 46 F D. Johansson, O. Frost, C. Retzner, and D. Dubhashi Classifying large graphs with differential privacy. In *Proc of Modeling Decisions for Artificial Intelligence, MDAI*, 2015.

#### TECHNICAL REPORTS

- 47 FD. Johansson Machine Learning Analysis of Heterogeneity in the Effect of Student Mindset Interventions. In *arXiv preprint arXiv:1811.05975*, 2018.
- 48 F D. Johansson, N. Kallus, U. Shalit, D. Sontag. Learning Weighted Representations for Generalization Across Designs. In *arXiv preprint arXiv:1802.08598*, 2018.
- 49 O. Gottesman, FD. Johansson, et al. Evaluating Reinforcement Learning Algorithms in Observational Health Settings. In *arXiv preprint arXiv:1805.12298*, 2018.
- 50 E. Jorge, M. Kågebäck, F D. Johansson, E. Gustavsson. Learning to Play Guess Who? and Inventing a Grounded Language as a Consequence. In *arXiv preprint arXiv: 1611.03218*, 2016.

#### OTHER PUBLICATIONS

- 51 F D. Johansson. Learning with geometric embeddings of graphs. *Doctoral Thesis*, 2017
- 52 F D. Johansson. Query Concept Interaction over Time. *MSc Thesis*, 2012

## PEDAGOGICAL ACHIEVEMENTS

### TEACHING EXPERIENCE

#### Chalmers University of Technology

- 2024– Machine Learning in Healthcare (MSc course). Developer & lecturer. Developed and delivered all lectures and assignments.
- 2020– Causality & causal inference (MSc course). Developer & lecturer. Developed and delivered all lectures and assignments.
- 2020– Design of AI systems (MSc course). Co-developer & lecturer. Developed and delivered the majority of lectures and assignments.

- 2016 Deep Learning (PhD student course). Co-developer & lecturer. Flipped classroom format with  $\sim 30$  students.
- 2015–2016 Algorithms for Machine Learning and Inference (Graduate level). Practice leader & guest lecturer.
- 2012–2016 Algorithms (MSc course). Practice leader.
- 2012–2014 Algorithms, Advanced Course (MSc course). Practice leader.
- 2013–2014 Data structures (BSc course). Practice leader.

#### **Massachusetts Institute of Technology**

- 2019 Machine Learning for Healthcare (Graduate level).  
Guest lecture: Reinforcement learning
- 2018 Causal Inference & Deep Learning (Graduate level). Co-developer & lecturer.  
Course within the MIT IAP format with  $\sim 70$  students.
- MIT Beavers Works Summer Institute (High-school level). Guest lecture: Clinical Machine Learning

#### **Cornell Tech**

- 2017 Causality and Learning for Intelligent Decision Making (Graduate level). Guest-lecture: Estimating Individual Treatment Effect: Generalization Bounds & Algorithms.

#### **Columbia University**

- 2015 Introduction to Machine Learning (Undergraduate level). Guest-lecture: Support Vector Machines & Kernels

### **STUDENT SUPERVISION**

#### **PhD Students.**

- 2023– Alessandro Margueritte. Chalmers University of Technology.  
Main supervisor
- 2023– Ahmet Balcioglu. Chalmers University of Technology.  
Main supervisor
- 2023– Herman Bergström. Chalmers University of Technology.  
Main supervisor
- 2021– Tobias Karlsson. Chalmers University of Technology.  
Co-supervisor
- 2021–2023 Mena Nadum. Chalmers University of Technology.  
Main supervisor

- 2020– Newton Mwai. Chalmers University of Technology.  
Main supervisor
- 2020– Adam Breitholtz. Chalmers University of Technology.  
Main supervisor
- 2020– Lena Stempfle. Chalmers University of Technology.  
Main supervisor
- 2020– Anton Matsson. Chalmers University of Technology.  
Main supervisor
- 2019– Emil Carlsson. Chalmers University of Technology.  
Co-supervisor

**Undergraduate Research Opportunities Program (UROP). Massachusetts Institute of Technology**

- 2019 Suchan Vivatsethachai. Discovering clinical practice variation.
- 2019 David Amirault. Bounding epistemic uncertainty in causal estimation
- 2018 Christina Ji. Sequential Decision Making in Healthcare.

**MSc Theses (selected out of 30+ groups). Chalmers University of Technology.**

- 2022 Bastian Jung. Efficient learning with privileged information in nonlinear time series  
Primary supervisor. *Thesis work published in NeurIPS '22*
- 2021 Rickard Karlsson, Martin Willbo. Learning using Privileged Time Series  
Primary supervisor. *Thesis work published in AISTATS '22*
- 2020 Samuel Håkansson, Viktor Lindblom. Efficient search for effective treatments  
Primary supervisor. *Thesis work published in NeurIPS '20*
- 2020 Hakon Valur, Hildur Egilsdottir. Artificial Intelligence for Clinical Diagnostics in  
Alzheimer's disease  
Primary supervisor. *Thesis work published in Alzheimer's Research & Therapy*
- 2014 F Axelsson & B Rydback. Data-driven Coreference Resolution for Swedish.  
Assistant supervisor. *Thesis work presented at SLTC '14*
- Otto Frost & Carl Retzner. Graph Classification with Differential Privacy.  
Primary supervisor. *Thesis work published in MDAI '15*
- 2013 Linus Hermansson & Tommi Kerola. Entity Disambiguation in Anonymized Graphs  
Using Graph Kernels.  
Assistant supervisor. *Thesis work published in CIKM '13*

**PEDAGOGICAL QUALIFICATIONS**

Diploma in Teaching and Learning in Higher Education (Chalmers University of Technology)

Teaching, Learning and Evaluation 3 HEC, Chalmers University of Technology

Supervising research students 3 HEC, Chalmers University of Technology

Supervising writing processes 2.5 HEC, Chalmers University of Technology

Pedagogical project 5 HEC, Chalmers University of Technology

Theoretical perspectives on learning 2.5 HEC, Chalmers University of Technology

Diversity and inclusion for learning in higher education 2 HEC, Chalmers University of Technology

Reflections on Teaching and Learning in Higher Education 0.5 HEC

## RESEARCH GRANTS AND FUNDS

- 2022 Vetenskapsrådet Starting Grant. Kausalitet of sidoinformation för effektiv maskininlärning. Funding: 4 MSEK.
- 2020 WASP-AI Collaboration Project. Knut och Alice Wallenbergs Stiftelse. Funding: 2 PhD Student, 1 industry PhD student. (4 years) Co-PI with Uppsala University & Astra Zeneca.
- 2020 Vetenskapsrådet. Kombinera satelliter och artificiell intelligens för att mäta fattigdom mellan 1982-2020 och använda dessa data för att förklara effekterna av Världsbankens och Kinesiska utvecklingsprogram i Afrika. Funding: 18M SEK over 6 years. (Co-applicant)
- DSRE Seed project. Observatory of poverty – Harnessing machine intelligence to detect African poverty and inequality from satellite images. Funding: 300 kSEK (Co-applicant)
- CHAIR Seed grant. Poverty traps in Afrika. Funding: 3M SEK over 3 years. (Co-applicant)
- CHAIR Seed grant. AI and Missingness in Diagnostics for Alzheimer’s Disease. 300 kSEK (PI)
- CHAIR Seed grant. Yata – Intelligent systems to improve and support education. 300 kSEK (Named collaborator)
- 2019 Formas. Poverty traps in Africa. Funding: 3 MSEK (3 years) (Co-applicant)
- 2019 WASP-AI/Math PhD Project. Knut och Alice Wallenbergs Stiftelse. Funding: 1 PhD Student salary (4 years)
- 2018 WASP-AI/MLX Professorship. Knut och Alice Wallenbergs Stiftelse. Funding: Own salary (4 years), 2 PhD Student salaries (4 years), 2 Post-doc salaries (2 years).
- 2017 MIT-IBM Watson AI Lab. Exploratory Proposal: *Making Interpretable Causal Estimation of Individual Effect into a Science: Addressing the U. S. Opioid Epidemic and Other Health Policies*. Co-wrote the application. Main applicant: David Sontag.



MIT-IBM Watson AI Lab. Exploratory Proposal: *Learning Optimal Dynamic Treatment Strategies from Temporal ICU Monitoring Data*. Co-wrote the application. Main applicant: David Sontag.

Roche-Genentech Project Grant. In collaboration with Brigham & Women's hospital. *Finding the Target Population for Tocilizumab Monotherapy in Rheumatoid Arthritis*. Co-wrote the application. Main applicant: David Sontag.

Office of Naval Basic Research Challenge: *Predictive and Causal Modeling—Bridging the Gap*. Co-wrote the application. Main applicant: David Sontag.

2015 Sverige-Amerika Foundation Fellowship  
Funded research visits for 6 months at Columbia and NYU.

## PROFESSIONAL EXPERIENCE

### CONSULTING SERVICES

2019 Advisor at Human Longevity, Inc. Advise the data science team on problems related to healthcare and causal inference.

### CONFERENCE & WORKSHOP ORGANIZATION

- 2023 Conference on Uncertainty in Artificial Intelligence (UAI)  
Workflow chair
- 2020 Conference on Uncertainty in Artificial Intelligence (UAI)  
Publication chair
- 2020 3rd Swedish AI Society Workshop (SAIS)  
Program chair
- 2018 Beyond Prediction: Counterfactual Evaluation, Learning, and Intervention.  
Workshop proposal submitted to *NeurIPS 2018*. Co-organizer.

### TUTORIALS

- 2023 Causal Machine Learning. *Probabilistic AI Summer School, Trondheim, Norway*. Developed and delivered a 3-hour tutorial about causal inference for  $\approx 100$  PhD students.
- 2019 Causality & Causal Inference. *WASP Summer School, Stockholm*. Developed and delivered a 3-hour tutorial for 50–60 PhD students in the WASP graduate school.

## INVITED TALKS &amp; PRESENTATIONS

## INVITED TALKS (SELECTED)

- 2024 LMU Munich AI Keynote Series  
*Interpretable machine learning with missing values*
- 2024 Alingsås Senior University  
*AI i vården*
- 2023 Seminar at the KTH Royal Institute of Technology  
*Sample-efficient and domain-robust machine learning using privileged information*
- 2023 ML Seminar, Technion, Israel Institute of Technology  
*Sample-efficient and domain-robust machine learning using privileged information*
- 2023 SCS Seminar, Brigham and Women's hospital  
*Machine learning with auxiliary variables: Improving sample efficiency and domain generalization*
- 2022 Pacific Causal Inference Conference  
*Efficient learning using privileged information with known causal structure*
- UR Samtiden (National public broadcaster)  
*Hur lär sig maskiner att lösa problem med AI?*
- Inria Soda Seminar  
*Causal effects, generalization bounds and learned representations*
- 2021 Falsterbo-Skytts Rotaryklubb  
*Artificiell intelligens i vården*
- WASP4All  
*Making the most of machine learning for better decisions*
- 2020 Biotech Atelier  
*Machine Learning for predicting progression of Alzheimer's disease*
- Vetenskapsfestivalen, Gothenburg  
*Algoritmer som beslutsstöd—Är det rättvist?*
- 2019 Seminar at the Division of Systems and Control, Uppsala University, Sweden  
*Machine Learning, Causality & Decision-making*
- Joint Statistical Meeting (JSM), Denver, Colorado  
*Machine Learning and Overlap in Observation Studies*
- Harvard Center for Population and Dev Studies Lunch Seminar, Boston, MA  
*Machine Learning for Causal Effect Estimation*
- 2018 Harvard School of Public Health Luncheon Seminar, Cambridge

*Causal Effects and Overlap in High Dimensions*

Microsoft Research Machine Learning Seminar, Seattle  
*Causal Effects and Overlap in High Dimensions*

IBM Causal Inference Workshop, Cambridge  
*Causal Effects and Overlap in High Dimensions*

UMass Amherst Learning and Friends Lunch, Amherst  
*Machine Learning for Estimating Causal Effects*

Atlantic Causal Inference Conference, Pittsburgh  
*Empirical Investigations of Methods for Treatment Effect Heterogeneity*

Atlantic Causal Inference Conference, Pittsburgh  
*Counterfactual prediction & Domain Adaptation in High Dimensions*

Broad Institute, Cambridge MA  
*Causal Inference Primer*

2016 Deep Learning Symposium, NeurIPS. (Invited as co-author. Did not give talk.)  
*Learning representations for counterfactual inference*

Machine Learning—What, how and why? Göteborg Science Festival, Göteborg

Machine Learning Seminars, Linköping University, Sweden  
*What if...? Machine Learning and Causal Inference.*

Machine Learning Workshop, Chalmers University of Technology  
*Introduction to Machine Learning*

Göteborg Film Festival Panel, Chalmers University of Technology  
*Panel on Turing AI & The Imitation Game*

## EDITORIAL WORK

Action editor, Transactions of Machine Learning Research (TMLR)

## PROGRAM COMMITTEE (REVIEWER OR AREA CHAIR)

Journal of Machine Learning Research (JMLR)

Uncertainty in Artificial Intelligence (UAI)

International Conference on Artificial Intelligence and Statistics (AISTATS)

Association for the Advancement of Artificial Intelligence (AAAI)

Neural Information Processing Systems (NeurIPS)  
International Conference on Machine Learning (ICML)  
International Conference on Knowledge Discovery and Data Mining (KDD)  
European Conference on Machine Learning and Principles and Practice of Knowledge Discovery.

## VOLUNTEER

- 2015 The 21st Conference of Knowledge Discovery and Data Mining, (KDD)
- 2014 International Conference on Machine Learning (ICML)

Last updated: December 15, 2024