



# Mats Julius Stensrud

*MD Dr.philos*

## Personal details

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## Current job

Sep 2020- **Tenure-Track Assistant Professor of Statistics**, *Chair of Biostatistics, Dep. of Mathematics*, Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland.  
Causal Inference, Medicine, Epidemiology, Statistical Methodology.

## Work experience

- 2018-2020 **Fulbright scholar and Kolokotronis fellow**, *Dep. of Epidemiology*, Harvard School of Public Health, USA.  
Causal Inference, Longitudinal data.
- 2018 **Residency**, *Dep. of Medicine*, Diakonhjemmet Hospital, Oslo, Norway.  
50% position March-September 2018. Clinical training in internal medicine (LIS 2)
- 2018 **Postdoctoral fellow**, *Dep. of Biostatistics*, University of Oslo, Norway.  
50% position. Causal Inference, Survival analysis, Epidemiologic methods
- 2016-2018 **Intern**, *Dep. of Medicine and Dep. of Surgery*, Diakonhjemmet Hospital, Oslo.  
100% position. Clinical training in internal medicine and general surgery (LIS 1 / Turnus)

## Education

- 2016 **MD**, *Medical Doctor*, University of Oslo, Norway.
- 2015 **Dr.philos**, *Neuroscience*, University of Oslo, Norway.  
Dissertation: Non-classical release of classical neurotransmitters
- 2014 **MSc**, *Applied Statistics*, University of Oxford, United Kingdom.  
Best achievements in the MSc program
- 2013 **BSc**, *Mathematics*, University of Oslo, Norway.

## Teaching

- 2022- **MATH-614 (Foundations of Causal Inference)**, *Department of Mathematics*, EPFL.  
PhD course.
- 2022- **MATH-352 (Causal thinking)**, *Department of Mathematics*, EPFL.  
MSc and advanced BSc course (for students outside of the math department).

- 2021- **MATH-336 (Randomization and Causation)**, *Department of Mathematics*, EPFL.  
3rd year BSc course.
- 2021- **MATH-449 (Biostatistics)**, *Department of Mathematics*, EPFL.  
1st year MSc course.
- 2020-2021 **MF9570 (Causal Inference)**, *Department of Biostatistics*, University of Oslo.  
PhD course. 7 hours of lectures on mediation analysis and causal mechanisms.
- 2019-2020 **HT194 (Clinical Epidemiology)**, *Harvard Medical School*, Harvard University.  
Teaching assistant for Prof. Miguel Hernán.
- 2019 **EPI207 (Advanced Epidemiologic Methods)**, *Harvard School of Public Health*, Harvard University.  
Teaching assistant for Prof. James Robins.
- 2017 **HEL8020 (Causal inference)**, *Faculty of Medicine*, University of Tromsø, Norway.  
Lecturing PhD-students and researchers causal inference methods for Health Registry Data.
- 2015 **MF9490 (Statistics)**, *Faculty of Medicine*, University of Oslo, Norway.  
Lecturing statistics for PhD students in the Laboratory animal handling course.
- 2014-2016 **MED1100 (Statistics)**, *Faculty of Medicine*, University of Oslo, Norway.  
Classroom teaching. Introduction to statistics for 1st year MD students.

## Fellowships and grants

- 2023- **SNSF Starting Grant (ERC replacement)**, *Dep. of Mathematics*, EPFL.  
1'200'000 CHF. Causal Inference for Infectious Disease Control
- 2022- **SNSF Research Grant**, *Dep. of Mathematics*, EPFL.  
820'182 CHF. Causal Inference when resources are limited
- 2019-2020 **Kolokotronis Fellow**, *Dep. of Epidemiology*, Harvard University.  
Causal Inference
- 2018-2019 **Fulbright Research Scholar**, *Dep. of Epidemiology*, Harvard University.  
Causal Inference
- 2018 **Unger Vetlesen Scholarship**, *Dep. of Epidemiology*, Harvard University.
- 2015 **Eckbo Legat**, *Dep. of Statistics*, University of Oxford.
- 2014 **Jansen Scholarship**, *Dep. of Statistics*, University of Oxford.
- 2013 **Norway Oxford Scholarship**, *Dep. of Statistics*, University of Oxford.  
Awarded to one Norwegian annually
- 2013 **Senior Scholarship**, *Dep. of Statistics*, University of Oxford.  
For excellent academic records
- 2012, 2014 **Sønneland Scholarship**, *Faculty of Medicine*, University of Oslo.
- 2011 **Apeland Viking Scholarship**, University of Wisconsin-Madison.  
Studies in Health Communication. Awarded to one Norwegian annually
- 2009 **Fulbright Scholarship for Outstanding European Students**, Drexel University.  
Social science and American history

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## Awards

- 2018 **Rothman Prize (Runner Up).**  
Runner up for best article in Epidemiology in 2018.
- 2018 **Statistical Excellence Award for Early-Career Writing (Runner Up).**  
Runner up for best article in 2018 (Joint with Morten Valberg).
- 2018 **Best Paper Award, Norwegian Epidemiological Association.**  
*Inequality in cancer risk suggest bad genes rather than bad luck*, Nature Communications.
- 2018 **Candidate at the Lindau Nobel Laureate Meeting.**  
The Norwegian participant in the 68th Lindau Nobel meeting with 39 Nobel Laureates.
- 2014 **Gutierrez-Toscano Prize, Dep. of Statistics, University of Oxford.**  
I obtained the best achievements in the MSc program in Applied Statistics.

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## Invited Workshops

- 2022 **Causal Inference with Competing Events**, with Jessica Young, Karolinska Institutet, Stockholm.
- 2022 **Causal Inference with Competing Events**, with Jessica Young, Society of Epidemiologic Research, Chicago, USA.

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## Selected talks

- 2023 **BSU Seminar**, *Invited talk*, Cambridge, UK.  
BSU Seminar: 'From Data to Decisions: Causal Inference Motivated by Policy Questions'
- 2023 **Berlin Epidemiological Methods Colloquium**, , *Invited talk*, Germany.  
On optimal treatment regimes assisted by algorithms
- 2023 **Statistics Seminar**, *Invited talk*, Tel Aviv University, Israel.  
Bridging data and decisions
- 2022 **Applied Statistics Seminar**, *Invited talk*, ETH, Zurich.  
Bridging data and decisions: How strings of numbers can honestly guide future policies
- 2022 **Center for Causal Inference Fall Seminar**, *Invited talk*, University of Pennsylvania, USA.  
Superoptimal Regimes
- 2022 **EFPSI Basel**, *Discussant*, Basel, USA.
- 2022 **ISPM Bern Seminar**, *Invited talk*, Bern, Switzerland.  
Causal reasoning in settings with competing truncating events
- 2022 **Biostatistics Seminar**, *Invited talk*, New York University, USA.  
Causal reasoning in the presence of competing and truncating events
- 2022 **Society of Epidemiologic Research**, *Symposium organizer*, Chicago, USA.  
What we think about when we think about fairness
- 2022 **Statistics Seminar**, *Invited*, University of Waterloo (online), Canada.
- 2022 **Swiss Statistics Seminar**, *Invited*, Bern, Switzerland.
- 2021 **Centre for Statistical Methodology Series**, *Invited*, London School of Hygiene and Tropical Medicine (online), London, UK.

- 2021 **Online Causal Inference Meeting**, *Invited discussant*, Stanford (online), USA.
- 2021 **CMStatistics 2020**, *Invited*, London (online), UK.  
Causal inference when resources are constrained
- 2021 **Biostatistics Seminar at the Karolinska Institute**, *Invited*, Stockholm, Sweden (Online).  
Causal effects conditional on post-treatment events
- 2021 **The 2021 Pacific Causal Inference Conference**, *Invited*, Beijing (online), China.  
Causal inference when resources are limited
- 2021 **Society of Epidemiologic Research**, *Contributed*, San Diego (online), USA.  
Non-discriminatory allocation of limited health resources
- 2021 **JGH Epidemiology Seminar 2021**, *Invited*, (online), Montreal.  
Causal inference in settings with competing events and truncation by death
- 2021 **Biometrischen Kolloquium 2021**, *Invited*, (online), Germany.  
Causal inference Under Resource Constraints
- 2020 **CMStatistics 2020**, *Invited*, London (online), UK.  
New estimands for causal inference conditional on post-treatment variables
- 2020 **Society of Epidemiologic Research**, *Contributed*, Boston (online), USA.  
New estimands for conditional causal effects
- 2020 **Center for Statistics - Adolphe Quetelet Seminar Series**, *Invited*, University of Ghent, Belgium.  
Causal reasoning in settings with competing events and truncation by death
- 2020 **Seminar in Probability Theory and Statistics**, *Invited*, University of Basel, Switzerland.  
New estimands for causal inference conditional on a post-treatment event
- 2020 **Biostatistics seminar**, *Invited*, University of Geneva, Switzerland.  
Causal Inference Conditional on a Post-Treatment Variable
- 2020 **Joint Statistical Meeting**, *Contributed*, Philadelphia, USA.  
Causal Inference Conditional on a Post-Treatment Event
- 2020 **European Causal Inference Meeting**, *Contributed*, Oslo, Norway (Online due to COVID-19).  
Conditional Separable Effects
- 2020 **Boston University Causal Inference Seminar**, *Invited*, Boston University, USA.  
The separable effects: New estimands for causal inference in time-to-event settings
- 2019 **Causal Inference Reading Group**, *Invited*, University of Pennsylvania, USA.  
Separable Effects
- 2019 **Ulm Mathematical Colloquium**, *Invited*, Ulm, Germany.  
Causal Inference in Continuous Time
- 2019 **Society of Epidemiologic Research**, *Invited*, Minneapolis, USA.  
Separable effects: new estimands for causal inference in competing risk settings
- 2019 **Lifetime Data Science: Foundations and Frontiers**, *Invited*, Pittsburgh, USA.  
New Estimands for Causal Inference in the Presence of Competing Risks

- 2019 **Biostatistics group meeting, Harvard Pilgrim Health Care Institute, *Invited***, Boston, USA.  
Separable effects for competing risks settings.
- 2019 **Atlantic Causal Inference Conference, *Contributed***, Montreal, Canada.  
Causal inference in the presence of competing risks
- 2019 **European Causal Inference Meeting, *Contributed***, Bremen, Germany.  
Separable effects: New estimands for causal inference in competing risk settings
- 2018 **European Causal Inference Meeting, *Contributed***, Florence, Italy.  
Marginal structural models for survival analysis in continuous time: Theoretically appealing and practically feasible
- 2017 **Causal Inference for Longitudinal Data, *Invited***, Columbia University, USA.
- 2017 **Workshop on Causal Inference in Health Registry Research, *Invited***, Oslo, Norway.
- 2016 **Biostatistics seminar, *Invited***, Oslo, Norway.
- 2016 **NordStat, The Nordic Statistical Meeting, *Invited***, Copenhagen, Denmark.
- 2016 **Bergen Biostatistical Seminar, *Invited***, Bergen, Norway.
- 2015 **Instrumental Variables and Causal Inference, *Invited***, Copenhagen, Denmark.

## Postdoc supervision

- 2021- **Aaron Sarvet, *Department of Mathematics***, EPFL, Switzerland.  
Theory and methods for causal inference with limited resources
- 2022-2023 **Anders Huitfeldt, *Department of Mathematics***, EPFL, Switzerland.  
Causal inference in medicine
- 2020-2021 **Pål Christie Ryalen, *Department of Mathematics***, EPFL, Switzerland.  
Theory and methods for survival analysis

## PhD supervision

- 2022- **Lorenzo Gasparollo, *Department of Mathematics***, EPFL, Switzerland.  
PhD student, research on causal inference methods (main supervisor).
- 2020- **Matias Janvin, *Department of Mathematics***, EPFL, Switzerland.  
PhD student, research on causal inference methods (main supervisor).
- 2021- **Amit Sawant, *Department of Mathematics***, EPFL, Switzerland.  
PhD student, the EPFL Global leaders program (main supervisor).
- 2020- **Niklas Nyboe Maltzahn, *Department of Mathematics***, EPFL, Switzerland.  
visiting PhD student, research on estimation in continuous time multistate models (co-supervisor). Thesis defended September 14th 2021.
- 2020-2021 **Aaron Sarvet, *Harvard School of Public Health***, Harvard University, USA.  
Co-advisor and committee member
- 2017-2019 **Pål Christie Ryalen, *Faculty of Medicine***, University of Oslo, Norway.  
PhD in biostatistics (co-supervisor). Thesis defended September 5th 2019.

## Editorial boards

- Biometrics from July 2022
- Journal of the Royal Statistical Society - Series A (JRSS-A) from January 2022

## Peer review service 2017-2021

- Royal Statistical Society - Series B (JRSS-B) (2022)
- Journal of the American Statistical Association (2021,2022)
- PNAS (2021)
- Biometrika (2019, 2020, 2021,2022)
- Statistical Science (2020, 2021)
- Epidemiology (2018, 2019, 2020, 2021, 2022)
- Annals of Internal Medicine (2018, 2019, 2020, 2021)
- British Medical Journal (BMJ) (2018, 2021)
- Annals of Applied Statistics (2017, 2021)
- Biometrics (2020, 2021, 2022)
- Lifetime Data Analysis (2020,2021)
- European Journal of Epidemiology (2020, 2021)
- American Journal of Epidemiology (2019, 2020)
- Scandinavian Journal of Statistics (2019, 2020)
- Statistics in Medicine (2019,2022)
- Biometrical Journal (2018)

## Other professional activities

- 2022 **EuroCIM Steering Committee**, *Causal Inference Network in Europe*, Europe.
- 2022 **European Research Council (ERC)**, *Starting Grant reviewer*, EU.
- 2022 **Berrow Foundation Scholarships**, *Committee member*, Oxford, UK.
- 2022 **Occasional private consulting on causal inference**, *Switzerland and Germany*.
- 2021 **Causal report for Armasuisse**, *Report on Causality Research*, Switzerland.
- 2021 **Joint Statistical Meeting (JSM)**, *Contributed Session Organizer Causal Inference When Resources Are Limited*, USA (Virtual due to COVID-19).
- 2021 **Conference on Uncertainty in Artificial Intelligence (UAI)**, *Senior Program Committee Member*, USA (Virtual due to COVID-19).
- 2021 **Research Council**, *Grant reviewer*, Israel.
- 2020 **Conference on Uncertainty in Artificial Intelligence (UAI)**, *Program Committee*, Vancouver (Virtual due to COVID-19).
- 2019-2020 **Kolokotronis Symposium on Data Science**, *Organizer of monthly seminars*, Harvard School of Public Health.
- 2017-2018 **Medical Research Council**, *Grant reviewer*, UK.

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## A: Peer-reviewed publications

- [1] Sarvet, A. L., Wanis, K. N., Young, J., Hernandez-Alejandro, R., Hernán, M. A., **Stensrud, M. J.**, “Causal inference with limited resources: proportionally-representative interventions”. In: *Biometrics (accepted) and arXiv preprint arXiv:2002.11846* (2023).
- [2] **Stensrud, M. J.**, Smith, L. H., “Identification of vaccine effects when exposure status is unknown”. In: *Epidemiology (accepted)* (2022).
- [3] **Stensrud, M. J.**, Robins, J. M., Sarvet, A., Tchetgen, E. J. T., Young, J. G., “Conditional separable effects”. In: *Journal of the American Statistical Association, Theory & Methods (accepted)* (2022).
- [4] **Stensrud, M. J.**, Dukes, O., “Translating questions to estimands in randomized clinical trials with intercurrent events”. In: *Statistics in Medicine (accepted)* (2022).
- [5] Sarvet, A. L., **Stensrud, M. J.**, “Without Commitment to an Ontology, There Could Be No Causal Inference”. In: *Epidemiology* 33.3 (2022), pp. 372–378.
- [6] Martinussen, T., **Stensrud, M. J.**, “Estimation of separable direct and indirect effects in continuous time”. In: *Biometrics* (2021).
- [7] **Stensrud, M. J.**, Hernán, M. A., Tchetgen Tchetgen, E. J., Robins, J. M., Didelez, V., Young, J. G., “A generalized theory of separable effects in competing event settings”. In: *Lifetime Data Analysis* (2021), pp. 1–44.
- [8] **Stensrud, M. J.**, Young, J. G., Martinussen, T., “Discussion on “Causal mediation of semicompeting risks” by Yen-Tsung Huang”. In: *Biometrics* (2021).
- [9] Didelez, V., **Stensrud, M. J.**, “On the logic of collapsibility for causal effect measures”. In: *Biometrical Journal* (2021).
- [10] Ryalen, P. C., Møller, B., Laache, C., **Stensrud, M. J.**, Røysland, K., “Prognosis of cancer survivors: estimation based on differential equations”. In: *Biostatistics* (2021).
- [11] Young, J. G., **Stensrud, M. J.**, “Identified versus interesting causal effects in fertility trials and other settings with competing or truncation events”. In: *Epidemiology* (2021).
- [12] Aris, I. M., Sarvet, A. L., **Stensrud, M. J.**, Neugebauer, R., Li, L.-J., Hivert, M.-F., Oken, E., Young, J. G., “Separating Algorithms from Questions and Causal Inference with Unmeasured Exposures: An Application to Birth Cohort Studies of Early BMI Rebound”. In: *American Journal of Epidemiology* (2021).
- [13] Accorsi, E. K., Qiu, X., Rumpler, E., Kennedy-Shaffer, L., Kahn, R., Joshi, K., Goldstein, E., **Stensrud, M. J.**, Niehus, R., Cevik, M., “How to detect and reduce potential sources of biases in studies of SARS-CoV-2 and COVID-19”. In: *European Journal of Epidemiology* (2021), pp. 1–18.

- [14] Wanis, K. N., Sarvet, A., Ruffolo, L. I., Levstik, M. A., Tomiyama, K., Al-Judaibi, B. M., **Stensrud, M. J.**, Hernandez-Alejandro, R., “Estimating the effect of increasing utilization of living donor liver transplantation using observational data”. In: *Transplant International* (2021).
- [15] **Stensrud, M. J.**, Young, J. G., Didelez, V., Robins, J. M., Hernán, M. A., “Separable Effects for Causal Inference in the Presence of Competing Events”. In: *Journal of the American Statistical Association, Theory & Methods* (2020).
- [16] **Stensrud, M. J.**, Hernan, M. A., “Why Test for Proportional Hazards?” In: *JAMA* (2020).
- [17] Young, J. G., **Stensrud, M. J.**, Tchetgen Tchetgen, E. J., Hernán, M. A., “A causal framework for classical statistical estimands in failure-time settings with competing events”. In: *Statistics in Medicine* (2020). DOI: 10.1002/sim.8471.
- [18] Sarvet, A. L., Wanis, K. N., **Stensrud, M. J.**, Hernán, M. A., “A graphical description of partial exchangeability”. In: *Epidemiology* (2020).
- [19] Chiu, Y.-H., **Stensrud, M. J.**, Dahabreh, I. J., Rinaudo, P., Diamond, M. P., Hsu, J., Hernández-Díaz, S., Hernán, M. A., “The effect of prenatal treatments on offspring events in the presence of competing events: an application to a randomized trial of fertility therapies.” In: *Epidemiology* (2020).
- [20] **Stensrud, M. J.**, Røysland, K., Ryalen, P. C., “On null hypotheses in survival analysis”. In: *Biometrics* (2019).
- [21] **Stensrud, M. J.**, Røysland, K., Ryalen, P. C., “Sufficient cause interaction for time-to-event outcomes”. In: *Epidemiology* (2019).
- [22] Ryalen, P. C., **Stensrud, M. J.**, Røysland, K., “The additive hazard estimator is consistent for continuous-time marginal structural models”. In: *Lifetime data analysis* (2019), pp. 1–28.
- [23] Huitfeldt, A., Swanson, S. A., **Stensrud, M. J.**, Suzuki, E., “Effect heterogeneity and variable selection for standardizing causal effects to a target population”. In: *European journal of epidemiology* (2019), pp. 1–11.
- [24] Huitfeldt, A., **Stensrud, M. J.**, Suzuki, E., “On the collapsibility of measures of effect in the counterfactual causal framework”. In: *Emerging themes in epidemiology* 16.1 (2019), p. 1.
- [25] Aalen, O. O., **Stensrud, M. J.**, Didelez, V., Daniel, R., Røysland, K., Strohmaier, S., “Time-dependent mediators in survival analysis: Modeling direct and indirect effects with the additive hazards model”. In: *Biometrical Journal* (2019).
- [26] Wanis, K., Sarvet, A., **Stensrud, M. J.**, Hernán, M. A., “A graphical description of partial exchangeability”. In: *Epidemiology* (2020).
- [27] **Stensrud, M. J.**, Aalen, J. M., Aalen, O. O., Valberg, M., “Limitations of hazard ratios in clinical trials”. In: *European Heart Journal* (2018), ehy770.



- [28] **Stensrud, M. J.**, Valberg, M., “Preventing cancer: Mere rhetoric or a promising plan?” In: *Significance* (2018).
- [29] Ryalen, P. C., **Stensrud, M. J.**, Røysland, K., “Transforming cumulative hazard estimates”. In: *Biometrika* (2018). DOI: 10.1093/biomet/asy035.
- [30] Ryalen, P. C., **Stensrud, M. J.**, Fosså, S., Røysland, K., “Causal inference in continuous time: an example on prostate cancer therapy”. In: *Biostatistics* (2018).
- [31] **Stensrud, M. J.**, Strohmaier, S., Valberg, M., Aalen, O. O., “Can chance cause cancer? A causal consideration”. In: *European Journal of Cancer* 75 (2017), pp. 83–85.
- [32] Valberg, M., **Stensrud, M. J.**, Aalen, O. O., “The surprising implications of familial association in disease risk”. In: *BMC public health* 18.1 (2018), p. 135.
- [33] Aalen, O. O., Gran, J. M., Røysland, K., **Stensrud, M. J.**, Strohmaier, S., “Feedback and Mediation in Causal Inference Illustrated by Stochastic Process Models”. In: *Scandinavian Journal of Statistics* 45.1 (2018), pp. 62–86.
- [34] **Stensrud, M. J.**, Valberg, M., “Inequality in genetic cancer risk suggests bad genes rather than bad luck”. In: *Nature Communications* 8.1 (2017), p. 1165.
- [35] **Stensrud, M. J.**, Valberg, M., Aalen, O. O., “Can Collider Bias Explain Paradoxical Associations?” In: *Epidemiology* 28.4 (2017), e39–e40.
- [36] **Stensrud, M. J.**, Strohmaier, S., “Diastolic hypotension due to intensive blood pressure therapy: Is it harmful?” In: *Atherosclerosis* 265 (2017), pp. 29–34.
- [37] **Stensrud, M. J.**, Valberg, M., Røysland, K., Aalen, O. O., “Exploring Selection Bias by Causal Frailty Models”. In: *Epidemiology* 28.3 (2017), pp. 379–386.
- [38] Tangerud, Å., Potapenko, I., Skjerven, H. K., **Stensrud, M. J.**, “Radiologic evaluation of lumps in the male breast”. In: *Acta Radiologica* 57.7 (2016), pp. 809–814.
- [39] **Stensrud, M. J.**, Sogn, C. J., Gundersen, V., “Immunogold characteristics of VGLUT3-positive GABAergic nerve terminals suggest corelease of glutamate”. In: *Journal of Comparative Neurology* 523.18 (2015), pp. 2698–2713.
- [40] **Stensrud, M. J.**, Puchades, M., Gundersen, V., “GABA is localized in dopaminergic synaptic vesicles in the rodent striatum”. In: *Brain Structure and Function* 219.6 (2014), pp. 1901–1912.
- [41] **Stensrud, M. J.**, Chaudhry, F., Leergaard, T., Bjaalie, J., Gundersen, V., “Vesicular glutamate transporter-3 in the rodent brain: Vesicular colocalization with vesicular  $\gamma$ -aminobutyric acid transporter”. In: *Journal of Comparative Neurology* 521.13 (2013), pp. 3042–3056.

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## B: Preprint articles with original content

- [1] Janvin, M., Young, J. G., Ryalen, P. C., **Stensrud, M. J.**, “Causal inference with recurrent and competing events”. In: *arXiv preprint arXiv:2202.08500* (2022).
- [2] **Stensrud, M. J.**, Sarvet, A. L., “Optimal regimes for algorithm-assisted human decision-making”. In: *arXiv preprint arXiv:2203.03020* (2022).

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## Department service at EPFL

- 2022-2023 **Hiring committee member**, *Professorship in Statistics*, Department of Mathematics.
- 2022 **Hiring committee member**, *Statistical consultant.*, Department of Mathematics.
- 2021-2022 **Hiring committee member**, *Bernoulli Instructor in Analysis and Statistics*, Department of Mathematics.
- 2020- **Working committee member**, *Designing a new EPFL Master in Statistics*, Department of Mathematics.
- 2020- **Msc admission committee**, *Msc in Mathematics*, Department of Mathematics.