



# Mats Julius Stensrud

*MD Dr.philos*

## Personal details

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## Next job

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

## Work experience

2018-2020 **Postdoctoral fellow**, *Dep. of Epidemiology*, Harvard School of Public Health, USA.  
Since September 2018. Causal Inference, Longitudinal data. Statistical methodology

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 since March 2018. 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

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.

## Student supervision

- 2019- **Mari Brathovde**, *Faculty of Medicine*, University of Oslo, Norway.  
PhD-student, research on epidemiologic methods (co-supervisor).
- 2018 **Matias Janvin**, *Faculty of Medicine*, University of Oslo, Norway.  
MD student, research on causal inference methods (main supervisor).
- 2017-2019 **Pål Christie Ryalen**, *Faculty of Medicine*, University of Oslo, Norway.  
PhD in biostatistics (co-supervisor). Thesis defended September 5th 2019.

## Fellowships and grants

- 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

## 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.

## Selected talks

- 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.

## Peer review service 2017-2019

- Lifetime Data Analysis (2020)
- American Journal of Epidemiology (2019, 2020)
- Biometrika (2019)
- Statistics in Medicine (2019)

- Scandinavian Journal of Statistics (2019)
- Epidemiology (2018, 2019)
- Biometrical Journal (2018)
- Annals of Internal Medicine (2018, 2019, 2020), top grade reviewer 2019.
- British Medical Journal (BMJ) (2018)
- Annals of Applied Statistics (2017)

## Other professional activities

- 2019 **Kolokotronis Symposium on Data Science**, *Organizer of monthly seminars*, Harvard School of Public Health.
- 2017-2018 **Medical Research Council**, *Grant reviewer*, United Kingdom.

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## A: Peer-reviewed publications with original content

- [1] **Stensrud, M. J.**, Hernan, M. A., “Why Test for Proportional Hazards?” In: *JAMA* (Mar. 2020). ISSN: 0098-7484.
- [2] 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.
- [3] Sarvet, A. L., Wanis, K. N., **Stensrud, M. J.**, Hernán, M. A., “A graphical description of partial exchangeability”. In: *Epidemiology* (2020).
- [4] **Stensrud, M. J.**, Røysland, K., Ryalen, P. C., “On null hypotheses in survival analysis”. In: *Biometrics* (2019).
- [5] **Stensrud, M. J.**, Røysland, K., Ryalen, P. C., “Sufficient cause interaction for time-to-event outcomes”. In: *Epidemiology* (2019).
- [6] 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.
- [7] 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.
- [8] 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.
- [9] 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).
- [10] Wanis, K., Sarvet, A., **Stensrud, M. J.**, Hernán, M. A., “A graphical description of partial exchangeability”. In: *Epidemiology (Accepted)* (2019).
- [11] **Stensrud, M. J.**, Aalen, J. M., Aalen, O. O., Valberg, M., “Limitations of hazard ratios in clinical trials”. In: *European Heart Journal* (2018), ehy770.
- [12] **Stensrud, M. J.**, Valberg, M., “Preventing cancer: Mere rhetoric or a promising plan?” In: *Significance* (2018).
- [13] Ryalen, P. C., **Stensrud, M. J.**, Røysland, K., “Transforming cumulative hazard estimates”. In: *Biometrika* (2018). DOI: 10.1093/biomet/asy035.
- [14] Ryalen, P. C., **Stensrud, M. J.**, Fosså, S., Røysland, K., “Causal inference in continuous time: an example on prostate cancer therapy”. In: *Biostatistics* (2018).
- [15] **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.

- [16] 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.
- [17] 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.
- [18] **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.
- [19] **Stensrud, M. J.**, Valberg, M., Aalen, O. O., “Can Collider Bias Explain Paradoxical Associations?” In: *Epidemiology* 28.4 (2017), e39–e40.
- [20] **Stensrud, M. J.**, Strohmaier, S., “Diastolic hypotension due to intensive blood pressure therapy: Is it harmful?” In: *Atherosclerosis* 265 (2017), pp. 29–34.
- [21] **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.
- [22] 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.
- [23] **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.
- [24] **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.
- [25] **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.

## --- B: Preprint articles with original content

- [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: *arXiv preprint arXiv:2002.11846* (2020).
- [2] **Stensrud, M. J.**, Young, J. G., Didelez, V., Robins, J. M., Hernán, M. A., “Separable Effects for Causal Inference in the Presence of Competing Risks”. In: *arXiv preprint arXiv:1901.09472 Revised, Journal of the American Statistical Association, Theory & Methods* (2019).