



Mats Julius Stensrud

MD Dr.philos

Personal details

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Current job

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 (service course, not intended for mathematics students).

- 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 (Replacement of ERC Starting Grant)**, *Dep. of Mathematics*, EPFL.
1'275'668 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

Awards

- 2023 **Lambert Award.**
Swiss Statistical Society. Awarded biennially to one person under 35 years.
- 2023 **Arthur-Linder Prize.**
Swiss-Austrian Biometrics Society. Awarded biennially to one person under 35 years.
- 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.

Invited workshops

- 2023 **Causal Inference with Competing Events**, with *Jessica Young*, European Causal Inference Conference, Oslo, Norway.
- 2022 **Competing Events in Epidemiology**, with *Jessica Young*, Karolinska Institutet, Stockholm.
- 2022 **Causal Inference with Competing Events**, with *Jessica Young*, Society of Epidemiologic Research, Chicago, USA.

Selected talks

- 2023 **Society of Epidemiologic Research, Symposium speaker**, Portland, USA.
- 2023 **Atlantic Causal Inference Conference, Contributed**, Austin, Texas.
Superoptimal regimes
- 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

- 2023- **Elise Dumas**, *Department of Mathematics*, EPFL, Switzerland.
Breast Cancer Research
- 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

- 2023- **Julien Laurendeau**, *Department of Mathematics*, EPFL, Switzerland.
PhD student, research on theory of causal inference (main supervisor).

- 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

- 2022- **Biometrics**.
- 2022- **Journal of the Royal Statistical Society - Series A (JRSS-A)**.

Peer review service 2017-2023

- Annals of Statistics (2023)
- Journal of the Royal Statistical Society - Series B (JRSS-B) (2022,2023)
- Statistical Science (2020, 2021, 2023)
- Journal of the American Statistical Association (2021,2022)
- PNAS (2021)
- Biometrika (2019, 2020, 2021,2022)
- 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, 2023)
- 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.