Mats Julius Stensrud

MD Dr.philos

Current job

2024– **Associate Professor (with tenure)**, *Chair of Biostatistics, Inst. of Mathematics*, Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland.
Causal Inference, Statistical Methodology, Medicine, Epidemiology.

Previous positions

2020-2024 **Tenure-Track Assistant Professor**, *Chair of Biostatistics, Inst. of Mathematics*, Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland.
Causal Inference, Statistical Methodology, Medicine, Epidemiology.

2018-2020 **Fulbright scholar and Kolokotrones fellow**, *Dep. of Epidemiology*, Harvard School of Public Health, USA.

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.
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.

Editorial boards

2022- **Biometrics**, *Associate editor*.

2022- **Journal of the Royal Statistical Society - Series A (JRSS-A)**, *Associate editor*.

Selected professional service

2026	**Isaac Newton Institute for Mathematical Sciences**, University of Cambridge.
	1 out of 6 main organizers of "Causal inference: from theory to practice and back again"
2022-	**EuroCIM Steering Committee**, *Causal Inference Network in Europe*.
2022	**European Research Council (ERC)**, *Starting Grant reviewer*, EU.

Fellowships and grants

2023-	**SNSF Starting Grant (Replacement of ERC Starting Grant)**, *Inst. of Mathematics*, EPFL.
	1'275'668 CHF (1'400'000 USD). Causal inference for infectious disease control
2022-	**SNSF Research Grant**, *Inst. of Mathematics*, EPFL.
	820'182 CHF (900'000 USD). Causal Inference when resources are limited
2019-2020	**Kolokotrones 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

2024	**Sverdrup Prize**.
	Norwegian Statistical Society. Awarded every two years to one person under 40 years.
2023	**Lambert Award**.
	Swiss Statistical Society. Awarded every three years to one person under 35 years.
2023	**Arthur-Linder Prize**.
	Swiss-Austrian Biometrics Society. Awarded biennially to one person under 35 years.
2023	**International Statistics Institute**.
	Elected member.
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 suggests 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.

Teaching

2023 **MATH-655 (Advanced Methods for Causal Inference)**, *Department of Mathematics*, EPFL.
PhD course.

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.

Invited workshops

2023 **Causal Inference with Competing Events**, *with Jessica Young*, European Causal Inference Conference, Oslo, Norway.

2023 **Causal Inference with Competing Events**, Bayer Pharmaceuticals, Germany.

2022 **Competing Events in Epidemiology**, *with Jessica Young*, Karolinska Institutet, Stockholm, Sweden.

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

Invited plenary and colloquium talks

2023 **Online Causal Inference Seminar**, *Invited speaker*, Online.

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 **Center for Causal Inference Fall Seminar**, *Invited talk*, University of Pennsylvania.
Superoptimal Regimes

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 **Swiss Statistics Seminar**, *Invited*, Bern, Switzerland.

2021 **Centre for Statistical Methodology Series**, *Invited*, London School of Hygiene and Tropical Medicine (online), London, UK.

2021 **Biometrischen Kolloquium 2021**, *Invited*, (online), Germany.
Causal inference Under Resource Constraints

2020 **Center for Statistics - Adolphe Quetelet Seminar Series**, *Invited*, University of Ghent, Belgium.
Causal reasoning in settings with competing events and truncation by death

2019 **Ulm Mathematical Colloquium**, *Invited*, Ulm, Germany.
Causal Inference in Continuous Time

Other selected talks

2023 **Online Causal Inference Seminar**, *Invited speaker*, Online.

2023 **Interactive Causal Learning Conference**, *Invited talk*, Boca Raton, USA.

2023 **Society of Epidemiologic Research**, *Symposium speaker*, Portland, USA.

2023 **Atlantic Causal Inference Conference**, *Contributed*, Austin, Texas.
Superoptimal regimes

2022 **Applied Statistics Seminar**, *Invited talk*, ETH, Zurich.
Bridging data and decisions: How strings of numbers can honestly guide future policies

2022 **EFPSI Basel**, *Discussant*, Basel, USA.

2022 **ISPM Bern Seminar**, *Invited talk*, Bern, Switzerland.
Causal reasoning in settings with competing truncating events

2022 **Statistics Seminar**, *Invited*, University of Waterloo (online), Canada.

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 **Online Causal Inference Meeting**, *Invited discussant*, Stanford (online), USA.

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 **CMStatistics 2020**, *Invited*, London (online), UK.
Causal inference when resources are constrained

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 **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 **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 **NordStat, The Nordic Statistical Meeting**, *Invited*, Copenhagen, Denmark.

2016 **Bergen Biostatistical Seminar**, *Invited*, Bergen, Norway.

Postdoc supervision

2023- **Elise Dumas**, *Department of Mathematics*, EPFL, Switzerland.
Statistical methods for 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 (completed)

2020-2024 **Matias Janvin**, *Department of Mathematics*, EPFL, Switzerland.
Research on causal inference methods in event history analysis (main supervisor).

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.
Survival analysis (co-supervisor at the university of Oslo).

PhD supervision (ongoing)

2024– **Gellert Perenyi**, *Department of Mathematics*, EPFL, Switzerland.
PhD student, research on methods for infectious disease control (main supervisor).

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).

2021- **Amit Sawant**, *Department of Mathematics*, EPFL, Switzerland.
PhD student, the EPFL Glboal leaders program (main supervisor).

Peer review service 2017-2024

- Journal of the Royal Statistical Society - Series B (JRSS-B) (2022,2023,2024)
- Annals of Statistics (2023)
- Statistical Science (2020, 2021, 2023)
- Journal of the American Statistical Association (2021,2022,2023)
- 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)
- Journal of Causal Inference (2023)

Other professional activities

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 **Kolokotrones Symposium on Data Science**, *Organizer of monthly seminars*, Harvard School of Public Health.

2017-2018 **Medical Research Council**, *Grant reviewer*, UK.