

CURRICULUM VITAE

Date: 2025-02-26

Name: Carl Bonander

Date of birth: 1988-09-24

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Education:

2011	Bachelor	Karlstad University (Environmental Science)
2013	Master	Karlstad University (Societal Risk Management)
2016	Ph.D.	Karlstad University (Risk- and Environmental Studies)

Faculty Academic Appointments:

2016-2017	Lecturer in Risk- and Environmental Studies Faculty of Health, Science and Technology, Karlstad University
2017-2018	Associate Professor of Risk- and Environmental Studies Faculty of Health, Science and Technology, Karlstad University
2018-2022	Assistant Professor of Epidemiological Methods Sahlgrenska Academy, University of Gothenburg
2022-2024	Associate Professor of Epidemiological Methods Sahlgrenska Academy, University of Gothenburg
2024-	Professor of Epidemiologic Methods Sahlgrenska Academy, University of Gothenburg
2024-	Guest Professor, Center for Societal Risk Research, Karlstad University

Other Professional Positions:

2013	Research Assistant Centre for Public Safety, Karlstad University
2014-2016	Ph.D. Student Centre for Public Safety, Karlstad University
2016-2018	Guest Lecturer in Public Health and Biostatistics Sahlgrenska Academy, University of Gothenburg
2023-2023	Guest Researcher Centre for Societal Risk Research, Karlstad University

Unpaid Affiliations:

2022- Centre for Societal Risk Research, Karlstad University

Readerships (Docenturer):

2018 Karlstad University (Risk- and Environmental Studies)

2020 University of Gothenburg (Epidemiology)

Administrative Positions:

2015-2016 Board of Graduate Studies, Faculty of Health, Science, and Technology
Karlstad University

2017-2018 Steering Committee, Centre for Public Safety
Karlstad University

2018 Director, Centre for Public Safety
Karlstad University

2022-2023 Program Committee, Master's in Public Health Science Program, School of
Public Health and Community Medicine
University of Gothenburg

2023-2024 Deputy Program Director, Master's in Public Health Science, School of Public
Health and Community Medicine
University of Gothenburg

2024- Program Director, Master's in Global Health, School of Public Health and
Community Medicine
University of Gothenburg

Editorial Activities:

Ad hoc reviewer

Epidemiology

American Journal of Epidemiology

International Journal of Epidemiology

European Journal of Epidemiology

American Journal of Public Health

European Journal of Public Health

Scandinavian Journal of Public Health

PharmacoEconomics

Transportation Research Part A: Policy and Practice

Injury Prevention

Accident Analysis & Prevention

Journal of Transport and Health

PLOS ONE

BMJ Open

BMJ Public Health

BMC Medical Research Methodology

Personality and Individual Differences

Fire Safety Journal

Europace

Other Editorial Roles

2019- Editorial Board Member, Injury Prevention
BMJ Journals

Research Grants:

- 2014-2018 *"With vulnerability, Susceptibility and Lifestyle in Focus – Strategies for Increased Safety in Home and Leisure Activities"*
Co-applicant, Swedish Civil Contingencies Agency (7 mSEK)
- 2017 *"Protective Factors in Residential Fires"*
Co-applicant, BrandForsk (2 kSEK)
- 2018 *"Housing Fires and Older Individuals – Interdisciplinary Approaches to Identify Protective Factors for Reducing Fatalities and Severe Injuries"*
Co-applicant, BrandForsk (7.5 kSEK)
- 2018 *"Rescue Services in a Changing Society"*
Principal Investigator, Swedish Civil Contingencies Agency (4.5 kSEK)
- 2019-2021 *"Toward an Evidence-Based Policy for Active and Healthy Aging: Implementation Processes, Effects, and Cost-Effectiveness of Municipal Ice Cleat Distribution Programs"*
Principal Investigator, Kamprad Family Foundation (3 mSEK)
- 2021-2024 *"Selective Participation and Loss to Follow-Up in Population-Based Studies: Novel Approaches for Dealing with Unmeasured Causes of Selection"*
Principal Investigator, Swedish Research Council for Health, Working Life and Welfare (Forte; 5.65 mSEK)
- 2021-2023 *"Development of Geomapping for Analysis and Monitoring of Inequalities in Early Cancer Detection Across Sweden"*
Co-applicant, The Swedish Cancer Society (2.4 mSEK)
- 2022-2023 *"Impact Evaluation of Municipal Ice Cleat Distribution Programs"*
Co-applicant, Swedish Transport Administration (3.5 kSEK)
- 2023-2029 *"Methods for targeting and evaluating public health interventions for people living in neighbourhoods where the burden of disease is high or the participation in organised screening is low"*
Co-PI, Swedish Research Council for Health, Working Life and Welfare (Forte; 24 mSEK)
- 2024-2026 *"New methods for targeting and evaluating cancer prevention interventions for people living in neighbourhoods where the burden of cancer is high or the participation in organised screening is low"*
Co-applicant, The Swedish Cancer Society (3 mSEK)
- 2024-2025 *"How should ice cleat distribution be carried out to be effective? Analysis of factors affecting effects and cost-effectiveness of municipal ice cleat distribution programs"*
Principal Investigator, Swedish Transport Administration (7.6 kSEK)
- 2024-2026 *"room4water: Transition capacity to manage extreme weather events by making room for the water: from mind to map"*
Co-applicant, Formas (6 mSEK)

Pedagogical Training:

- 2017 *"Teaching in Higher Education 1"*
Karlstad University (5 weeks)
- 2017 *"Teaching in Higher Education 2"*
Karlstad University (5 weeks)
- 2018 *"Supervising Doctoral and Licentiate Students"*
Karlstad University (5 weeks)
- 2020 *"Teaching and Learning in Higher Education 3: Applied Analysis"*

University of Gothenburg (3 weeks)

Doctoral Supervision:

- 2016-2018 Anders Jonsson (Risk- and Environmental Studies)
Karlstad University. Co-supervisor.
- 2016-2018 Johanna Gustavsson (Risk- and Environmental Studies)
Karlstad University. Co-supervisor.
- 2017-2018 Linda Ryén (Medical Sciences)
University of Gothenburg. Co-supervisor.
- 2018- Khabat Amin (Risk- and Environmental Studies)
Karlstad University. Co-supervisor.
- 2018-2023 Åsa Davidsson (Risk- and Environmental Studies)
Karlstad University. Co-supervisor.
- 2019-2023 Frida Labori (Medical Sciences)
University of Gothenburg. **Main supervisor.**
- 2019-2023 Robin Holmberg (Risk- and Environmental Studies)
Karlstad University. **Main supervisor (licentiate degree).**
- 2022- Reza Javid (Medical Sciences)
University of Gothenburg. **Main supervisor.**
- 2022- Gabriella Chauca Strand (Medical Sciences)
University of Gothenburg. **Main supervisor.**
- 2023- Gina Sado (Medical Sciences)
Karolinska Institute. Co-supervisor.

Doctoral Examination:

- 2021 Opponent, Pre-thesis seminar (Samuel Lindgren, Economics)
Örebro University
- 2021 Grading Committee, Ph.D. defense (Fanny Goude, Health Economics)
Karolinska Institute
- 2021 Grading Committee, Half-time seminar (Maria Corell, Medical Sciences)
University of Gothenburg
- 2022 Grading Committee, Half-time seminar (Rickard Zeiljon, Medical Sciences)
University of Gothenburg
- 2023 Grading Committee, Half-time seminar (Yanfei Guo, Medical Sciences)
University of Gothenburg
- 2024 Grading Committee, Half-time seminar (Thanh Hoang, Medical Sciences)
University of Gothenburg
- 2024 Grading Committee, Ph.D. defense (Yanfei Guo, Medical Sciences)
University of Gothenburg
- 2025 Grading Committee, Half-time seminar (Lode van der Velde, Med. Sciences)
Karolinska Institute

Teaching:

Bachelor level

- 2018 “*Risk Management – Bachelor’s Thesis*”
Karlstad University (Campus). Course Coordinator, Lecturer (Class time: 16h) and Supervisor (7 students; 10h each).
- 2016-2018 “*Theory and Method for Health Promotion, Prevention and Evaluation*”
University of Gothenburg (Campus). Lecturer (Class time: 18h per year).

- 2017-2019 “*Epidemiology, Biostatistics, and Qualitative Methods*”
University of Gothenburg (Campus). Lecturer (Class time: 12h per year).
- 2018-2019 “*Degree Project (Medical Program)*”
University of Gothenburg (Campus). Lecturer (Class time: 3h per year) and
Statistics Consultant (6h per year).

Master level

- 2013-2018 “*Public Safety I: Injury Analysis and Risk Assessment*”
Karlstad University (Online). Course Coordinator and Lecturer (Class time: 8h
per year).
- 2014-2018 “*Public Safety II: Injury Prevention and Safety Promotion*”
Karlstad University (Online). Course Coordinator and Lecturer (Class time: 8h
per year).
- 2014-2018 “*Quantitative Scientific Methodology*”
Karlstad University (Online). Lecturer (Class time: 2h per year).
- 2015-2018 “*Public Safety III: Societal Safety Promotion*”
Karlstad University (Online). Lecturer (Class time: 8h per year).
- 2016 “*Introduction to Societal Risk Management*”
Karlstad University (Online). Lecturer (Class time: 3h).
- 2016-2018 “*Risk Management – Master’s thesis*”
Karlstad University (Online). Supervisor (15h per student, ~1-2 students per
year).
- 2019 “*Health Economics and Evaluations*”
University of Gothenburg (Campus). Lecturer (Class time: 15h).
- 2020-2023 “*Health Economics: Foundations, Areas of Application, and Methodology*”
University of Gothenburg (Campus). Lecturer (Class time: 30h per year).
- 2020-2023 “*Advanced Course in Health Economic Evaluation*”
University of Gothenburg (Campus). Course Coordinator (in 2022) and
Lecturer (Class time: 30h per year).
- 2021-2024 “*Public Health Science – Master’s thesis*”
University of Gothenburg (Campus). Supervisor (30h per student, ~2 students
per year) and Examiner (~2-3 theses per year). Course coordinator (2024).
- 2024 “*Applied Epidemiology and Biostatistics*”
University of Gothenburg (Campus). Lecturer (Class time: 8 hours).
- 2025 “*Global Health Master’s Thesis Course*”
University of Gothenburg (Campus). Course coordinator.

Ph.D. level

- 2016-2017 “*Causal Inference in Health Research*”
University of Gothenburg (Campus). Lecturer (8h per year).
- 2018-2019 “*Problematization and Research Planning in Risk- and Environmental Studies*”
Karlstad University (Campus). Lecturer (9h per year).
- 2020; 2022 “*Causal Inference with Non-Randomized Data*”
University of Gothenburg and Lund University (Campus; joint course). Course
Coordinator and Lecturer (Class time: 16h per year).
- 2022 “*Health Economic Evaluation Methods I*”
University of Gothenburg (Campus). Lecturer (Class time: 24h).
- 2022 “*Methods for Handling Missing Data*”
University of Gothenburg and Lund University (Campus; joint course). Course
Coordinator.

Publications:

Published peer-reviewed articles (2014-): 82.

For co-authored publications, my contributions are generally greatest in articles where I am the first or last author (first/last/single author share: 54%).

Peer-Reviewed Research Articles

1. Nwaru, C., **Bonander, C.**, Li, H., Santosa, A., Löve, J., & Nyberg, F. (2025) Neighbourhood immigrant density and COVID-19 infection and hospitalisation among healthcare workers in Sweden - a register-based observational study. Forthcoming in *BMJ Public Health*.
2. **Bonander, C.**, Jakobsson, N., Kemp Gudmundsdottir, K., Svennberg, E., & Engdahl, J. (2025). Atrial fibrillation screening for stroke prevention: An instrumental variables meta-analysis addressing varying participation rates. Forthcoming in *Europace*.
3. Adesoba, H., Olumide, A., Oluwadiya, K., Oladiran, A., Ojifinni, K., Popoola, O., & **Bonander, C.** (2025). Designing a prototype trauma registry framework for a tertiary health institution in a low- and middle-income country: A qualitative study. *PLOS ONE*, 20(1), e0317141.
4. Sado, G., Gudmundsdottir, K.K., **Bonander, C.**, Ekström, M., Engdahl, J., & Svennberg, E. (2024). The role of NT-proBNP in screening for atrial fibrillation in hypertensive disease. *IJC Heart & Vasculture*, 55, 101549.
5. Amin, K., Nilson, F., **Bonander, C.**, & Carlsson, A. (2024). Reversing accidents involving pedestrians: An epidemiological investigation and cluster analysis using a novel database derived from Swedish national register data. *Traffic Injury Prevention*, 1-8.
6. Sharma, S., Li, H., Löve, J., Nwaru, C., Gisslén, M., Byfors, S., Hammar, N., Nilsson, A., Björk, J., Nyberg, F., **Bonander, C.** (2024). Sociodemographic differences in the response to changes in COVID-19 testing guidelines. *European Journal of Public Health*, 34(6), 1066-1072.
7. **Bonander, C.**, Westerberg, M., Chauca Strand, G., Forsberg, A., & Strömberg, U. (2024). Colorectal cancer screening with fecal immunochemical testing or primary colonoscopy: inequities in diagnostic yield. *JNCI Cancer Spectrum*, 8(3).
8. Bergström, G., Hagberg, E., Björnson, E., Adiels, M., **Bonander, C.**, Strömberg, U., Andersson, J., Brunström, M., Carlhäll, C-J., Engström, G., Erlinge, D., Goncalves, I., Gummesson, A., Hagström, E., Hjelmgren, O., James, S., Janzon, M., Jonasson, L., Lind, L., Magnusson, M., Oskarsson, V., Sundström, J., Svensson, P., Söderberg, S., Themudo, R., Östgren, C., & Jernberg, T. (2024). A Self-Report Tool for Identification of Individuals with Coronary Atherosclerosis - The Swedish CARDioPulmonary BioImage Study. *Journal of the American Heart Association*, 13(14), e034603.
9. Kahn, F., **Bonander, C.**, Moghaddassi, M., Christiansen, C., Bennet, L., Malmqvist, U., Inghammar, M., & Björk, J. (2024). Previous SARS-CoV-2 infections and their impact on the protection from re-infection during the Omicron BA.5 wave – a nested case-control study among vaccinated adults in Sweden. *IJID Regions*, 10, 235-239.
10. Svensson, M., Chauca Strand, G., **Bonander, C.**, Johansson, N., & Jakobsson, N. (2024). Analyses of Quality of Life in Cancer Drug Trials - A Review of Measurements and Analytical Choices in Post-Reimbursement Studies. *BMC Cancer*, 24(1), 311.
11. **Bonander, C.**, Nilsson, A., Li, H., Sharma, S., Nwaru, C., Gisslén, M., Lindh, M., Hammar, N., Björk, J., & Nyberg, F. (2024). A capture-recapture-based ascertainment

probability weighting method for effect estimation with under-ascertained outcomes. *Epidemiology*, 35(3), 340-348.

12. van der Velden, R., **Bonander, C.**, Friberg, L., Crijns, H., Kemp-Gudmundsdottir, K., Engdahl, J., Linz, D., & Svennberg, E. (2024). Adherence to a single-lead electrocardiogram handheld device within an atrial fibrillation screening program: A subanalysis of the STROKESTOP studies. *Heart*, Published Online: 05 January 2024.
13. Chauca Strand, G., Strömberg, U., Forsberg, A. & **Bonander, C.** (2024). Impact of organised colorectal cancer screening on age-specific population incidences: evidence from a quasi-experimental study in Sweden. *European Journal of Epidemiology*, 39(1), 87-96.
14. **Bonander, C.**, Ekman, M., & Jakobsson, N. (2023). When Do Default Nudges Work? *Oxford Open Economics*, Published Online: 28 November 2023.
15. Labori, F., **Bonander, C.**, Svensson, M., & Persson, J. (2023). Long-term effects on healthcare utilisation among spouses of persons with stroke. *BMC Health Services Research*, 23(1), 1298.
16. Labori, F., Persson, J., Svensson, M. & **Bonander, C.** (2023). The impact of stroke on spousal and family income: a difference-in-difference study from Swedish national registries. *Topics in Stroke Rehabilitation*, Published online: 16 Oct 2023.
17. Nilsson, A., Strömberg, U., Björk, J., **Bonander, C.** (2023). Can non-participants in a follow-up be used to draw conclusions about incidences and prevalences in the full population invited at baseline? An investigation based on the Swedish MDC cohort. *BMC Medical Research Methodology*, 23(1), 228.
18. Nilsson, A., Strömberg, U., Björk, J., Forsberg, A., Kritzell, K., Kemp Gudmundsdottir, K., Engdahl, J., & **Bonander, C.** (2023). Examining the continuum of resistance model in two population-based screening studies in Sweden. *Preventive Medicine Reports*, 35, 102317.
19. Chauca Strand, G., Johansson, N., Jakobsson, N., **Bonander, C.**, & Svensson, M. (2023). Cancer drugs reimbursed with limited evidence on overall survival and quality of life: do follow-up studies confirm patient benefits? *Clinical Drug Investigation*, Published Online 28 July 2023.
20. Eklund, E., Holmberg, H., Svensson, M., Gustavsson, J. & **Bonander, C.** (2023). A quasi-experimental evaluation of municipal ice cleat distribution programmes for older adults in Sweden. *Injury Prevention*, Published Online 22 May 2023.
21. Parkes, B., Stafoggia, M., Fecht, D., Davies, B., **Bonander, C.**, de' Donato, F., Michelozzi, P., Piel, F., Strömberg, U. & Blangiardo, M. (2023). Community factors and excess mortality in the COVID-19 pandemic in England, Italy and Sweden. *European Journal of Public Health*, 33(4), 695.
22. Nwaru, C., Li, H., **Bonander C.**, Santosa, A., Franzén, S., Rosvall, M., & Nyberg, F. (2023). Occupational role and Covid-19 among foreign-born healthcare workers in Sweden: a registry-based study. *European Journal of Public Health*, 33(2), 202-208.
23. Nilsson, A., Björk, J., & **Bonander, C.** (2023). Proxy Variables and the Generalizability of Study Results. *American Journal of Epidemiology*, 192(3), 448-454
24. Gustavsson, J., Nilson, F. & **Bonander, C.** (2022). Compliant sports floors and fall-related injuries: evidence from a residential care setting and updated meta-analysis for all patient care settings. *Injury Prevention*, Published Online 23 December 2022.
25. Kemp Gudmundsdottir, K., **Bonander, C.**, Hygrell, T., Svennberg, E., Frykman, V., Strömberg, U. & Engdahl, J. (2022). Factors predicting participation and potential yield of screening-detected disease among non-participants in a Swedish population-based atrial fibrillation screening study. *Preventive Medicine*, 164, 107284.

26. **Bonander, C.**, Ekman, M., Jakobsson, N. (2022). Vaccination nudges: A study of pre-booked COVID-19 vaccinations in Sweden. *Social Science & Medicine*, 309, 115248.
27. Holmberg, R., Gustavsson, J., Svensson, M., & **Bonander, C.** (2022). Ice cleat distribution programs and ice cleat use among older adults: repeated cross-sectional evidence from 63 municipal interventions in Sweden. *Injury Prevention*, Published Online First: 03 August 2022.
28. Chauca Strand, G., **Bonander, C.**, Jakobsson, N., Johansson, N., & Svensson, M. (2022) Assessment of the clinical and cost-effectiveness evidence in the reimbursement decisions of new cancer drugs. *ESMO Open*, 7(5), 100569.
29. **Bonander, C.**, Stranges, D., Gustavsson, J., Almgren, M., Inghammar, M., Moghaddassi, M., Nilsson, A., Capdevila Pujol, J., Steves, C., Franks, P., Gomez, M., Fall, T., Björk, J., and COVID Symptoms Study Sweden (2022). A regression discontinuity analysis of the social distancing recommendations for older adults in Sweden during COVID-19. *European Journal of Public Health*, 32(5), 799-806.
30. Björk, J., **Bonander, C.**, Moghaddassi, M., Rasmussen, M., Malmqvist, U., Inghammar, M., & Kahn, F. (2022). COVID-19 vaccine effectiveness against severe disease from SARS-CoV-2 Omicron BA. 1 and BA. 2 subvariants—surveillance results from southern Sweden, December 2021 to March 2022. *Eurosurveillance*, 27(18), 2200322.
31. Strömberg, U., **Bonander, C.**, Westerberg, M., Levin, L. Å., Metcalfe, C., Steele, R., ... & Hultcrantz, R. (2022). Colorectal cancer screening with fecal immunochemical testing or primary colonoscopy: An analysis of health equity based on a randomised trial. *eClinicalMedicine*, 47, 101398.
32. Kahn, F., **Bonander, C.**, Moghaddassi, M., Rasmussen, M., Malmqvist, U., Inghammar, M., & Björk, J. (2022). Risk of severe COVID-19 from the Delta and Omicron variants in relation to vaccination status, sex, age and comorbidities: surveillance results from southern Sweden. *Eurosurveillance*, 27(9), 2200121.
33. Degli Esposti, M., Wiebe, D., Kaufman, E., **Bonander, C.** (2022). Synthetic Control Methodology for Examining Firearm Policy. *Current Epidemiology Reports*, 1-17.
34. Björk, J., **Bonander, C.**, Moghaddassi, M., Rasmussen, M., Malmqvist, U., Kahn, F., & Inghammar, M. (2022). Surveillance of COVID-19 vaccine effectiveness-a real-time case-control study in southern Sweden. *Epidemiology and Infection*, 150.
35. **Bonander, C.**, Nilsson, A., Björk, J., Blomberg, A., Engström, G., et al. (2022). The value of combining individual and small area sociodemographic data for assessing and handling selective participation in cohort studies: evidence from the Swedish CardioPulmonary bioImage Study. *PLOS ONE*, 17(3), e0265088.
36. Labori, F., Persson, J., **Bonander, C.**, Jood, K., Svensson, M. (2022). Cost-effectiveness analysis of left atrial appendage occlusion in patients with atrial fibrillation and contraindication for oral anticoagulation. *European Heart Journal*, 43(13), 1348-1356.
37. Amin, K., Skyving, M., **Bonander, C.**, Krafft, M., Nilson, F. (2022). Fall- and collision related injuries among pedestrians in road traffic environment – A Swedish national register-based study. *Journal of Safety Research*, 81, 153-165.
38. Bergström, G., Persson, M., Adiels, M., Björnsson, E., **Bonander, C.**, et al. (2021). Prevalence of subclinical coronary artery atherosclerosis in the general population. *Circulation*, 144(12), 916-929.
39. **Bonander, C.**, Humphreys, D., Degli Esposti, M. (2021). Synthetic control methods for the evaluation of single-unit interventions: a tutorial. *American Journal of Epidemiology*, 190(12), 2700-2711.
40. Nilsson, A., **Bonander, C.**, Strömberg, U., Canivet, C., Östergren, P-O., Björk, J. (2021) Reweighting a Swedish health questionnaire survey using extensive population register

and self-reported data for assessing and improving the validity of longitudinal associations. *PLOS ONE*, 16(7), e0253969.

41. Davidsson, Å., Johansson, M., **Bonander, C.** (2021). Desirable effects from disturbance ecology – a paradox within conservation management. *Sustainability*, 13(13), 7049.
42. Strömberg, U., Baigi, A., Holmén, A., Parkes, B., **Bonander, C.**, Piel, F. (2021). A comparison of small-area deprivation indicators for public health surveillance in Sweden. *Scandinavian Journal of Public Health*, Published Online July 20, 2021.
43. **Bonander, C.**, Holmberg, R., Gustavsson, J., Svensson, M. (2021). A model-based economic evaluation of ice cleat distribution programs for the prevention of outdoor falls among adults from a Swedish societal perspective. *Injury Prevention*, 28(2), 125-130.
44. Holmberg, R., Gustavsson, J., **Bonander, C.** (2021). Evaluation of the design and implementation of municipal ice cleat distribution programs for the prevention of ice-related fall injuries among older adults in Sweden. *PLOS ONE*, 16(6), e0253054.
45. Lin, P-I., **Bonander, C.**, Harmeyer, K., Kennedy, P., Sorter, M., Osborn, A., & Barzman, D. (2021). Predicting the time trend of first episodes of aggressive behaviors in pediatric psychiatric inpatient units. *Journal of Psychiatric Research*, 140, 117-123.
46. Runefors, M., Jonsson, A. & **Bonander, C.** (2021). Factors contributing to survival and evacuation in residential fires involving older adults in Sweden. *Fire Safety Journal*, 122, 103354.
47. Labori, F., **Bonander, C.**, Persson, J., Svensson, M. (2021). Clinical follow-up of left atrial appendage occlusion in patients with atrial fibrillation ineligible for oral anticoagulation treatment: a systematic review and meta-analysis. *Journal of Interventional Cardiac Electrophysiology*, Published Online February 13, 2021.
48. **Bonander, C.**, Svensson, M. (2021). Using Causal Forests to Assess Heterogeneity in Cost-Effectiveness Analysis. *Health Economics*, 30(8), 1818-1832.
49. **Bonander, C.** (2021). A (Flexible) Synthetic Control Method for Count Data and Other Nonnegative Outcomes. *Epidemiology*, 32(5), 653-660.
50. Strömberg, U., Parkes, B., Baigi, A., **Bonander, C.**, Holmén, A., Peterson, S., Piel, F. (2021). Small-area data on socioeconomic status and immigrant groups for evaluating equity of early cancer detection and care. *Acta Oncologica*, Published Online February 1, 2021.
51. Nilsson, A., **Bonander, C.**, Strömberg, U., Björk, J. (2021). A directed acyclic graph for interactions. *International Journal of Epidemiology*, 50(2), 613-619.
52. **Bonander, C.**, Nilsson, A., Bergström, G., Björk, J., Strömberg, U. (2021). Correcting for selective participation in cohort studies using auxiliary register data without identification of non-participants. *Scandinavian Journal of Public Health*, 49(4), 449-456.
53. Nilsson, A., **Bonander, C.**, Strömberg, U., Björk, J. (2020). Can the validity of a cohort be improved by reweighting based on register data? Evidence from the Swedish MDC study. *BMC Public Health*, 20(1), 1-11.
54. Persson, J., Hensing, G., **Bonander, C.** (2020). Employment transitions for spouses of stroke survivors: Evidence from Swedish national registries. *BMC Public Health*, 20(1), 1-9.
55. Degli Esposti, M., Spreckelsen, T., Gasparrini, A., Wiebe, D. J., **Bonander, C.**, Yakubovich, A., & Humphreys, D. K. (2020). Can synthetic controls improve causal inference in interrupted time series evaluations of public health interventions? *International Journal of Epidemiology*, 49(6), 2010-2020.
56. Nilson, F., Lundgren, L., **Bonander, C.** (2020). Living Arrangements and Fire-Related Mortality Amongst Older People in Europe. *International Journal of Injury Control and Safety Promotion*, 27(3), 378-384

57. Björk, J., Nilsson, A., **Bonander, C.**, Strömberg, U. (2020). A novel framework for classification of selection processes in epidemiological research. *BMC Medical Research Methodology*, 20(1), 1-10.
58. Nilson F. & **Bonander, C.** (2020). Societal Protection and Population Vulnerability – Key Factors in Explaining Community-Level Variation in Fatal Fires Involving Older Adults in Sweden. *Fire Technology*.
59. Gustavsson, J., Nilson, F., **Bonander, C.** (2020). Individual and contextual factors associated with the use of anti-slip devices according to a Swedish national survey. *Journal of Transport and Health*, 17.
60. Jernbro, C., **Bonander, C.**, Beckman, L. (2020). The association between disability and unintentional injuries among adolescents: evidence from a Swedish national school survey. *Disability and Health*, 13(1).
61. Nilson, F. & **Bonander, C.** (2019). Household fire protection practices in relation to socio-demographic characteristics: evidence from a Swedish national survey. *Fire Technology*.
62. **Bonander, C.**, Holmberg R. (2019). Estimating the effects of a studded footwear subsidy program on pedestrian falls among older adults in Gothenburg, Sweden. *Accident Analysis and Prevention*, 132.
63. Nilsson, A., **Bonander, C.**, Strömberg, U., Björk, J. (2019). Assessing Heterogeneous Effects and Their Determinants via Estimation of Potential Outcomes. *European Journal of Epidemiology*. 34(9), 823-835.
64. Sund, B., **Bonander, C.**, Jakobsson, N., Jaldell, H. (2019). Do Home Fire and Safety Checks by On-Duty Firefighters Decrease the Number of Fires? Quasi-Experimental Evidence from Southern Sweden. *Journal of Safety Research*, 70, 39-47.
65. **Bonander, C.**, Nilsson, A., Björk, J., Bergström, G., Strömberg, U. (2019). Participation weighting based on sociodemographic register data improved external validity in a population-based cohort study. *Journal of Clinical Epidemiology*, 108, 54-63.
66. Øien, H., Jakobsson, N., **Bonander, C.** (2018). The impact of community-based interventions for the elderly population: a quasi-experimental study of a hip-fracture prevention program in Norway. *BMC Geriatrics*, 18(1), 311.
67. Nilson, F., Damsager, J., Lauritsen, J., **Bonander, C.** (2018). Evaluating the Effects of a Breed-Specific Legislation on Dog Bites in Denmark. *PLOS ONE*, 13(12), e0208393.
68. Gustavsson, J., **Bonander, C.**, Nilson, F. (2018). A Quasi-Experimental Evaluation of Compliant Flooring in a Residential Care Setting. *PLOS ONE*, 13(7), e0201290.
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70. **Bonander, C.** (2018). Compared with what? Estimating the effects of injury prevention policies using the synthetic control method. *Injury Prevention*, 24(Suppl 1), i60-i66.
71. **Bonander, C.** & Jernbro, C. (2017). Does gender moderate the association between intellectual ability and accidental injuries? Evidence from the 1953 Stockholm Birth Cohort study. *Accident Analysis & Prevention*, 106, 109-114.
72. Jonsson, A., **Bonander, C.**, Nilson, F., & Huss, F. (2017). The state of the residential fire fatality problem in Sweden: epidemiology, risk factors, and event typologies. *Journal of Safety Research*, 62, 89-100.
73. **Bonander, C.**, Jakobsson, N. & Nilson, F. (2018). Are fire safe cigarettes actually fire safe? Evidence from changes in US state laws. *Injury Prevention*, 24(3), 193-198.
74. **Bonander, C.**, Jakobsson, N., Podestá, F. & Svensson, M. (2016). Universities as engines for regional growth? Using the synthetic control method to analyze the effects of research universities. *Regional Science and Urban Economics*, 60, 198-207.

75. **Bonander, C.**, Beckman, L., Janson, S & Jernbro, C. (2016). Injury risks in schoolchildren with attention-deficit/hyperactivity or autism spectrum disorder: Results from two school-based health surveys of 6 to 17-year-old children in Sweden. *Journal of Safety Research*, 58, 49-56.
76. **Bonander, C.**, Gustavsson, J. & Nilson, F. (2016). Can the provision of a home help service for the elderly population reduce the incidence of fall-related injuries? A quasi-experimental study of the community-level effects on hospital admissions in Swedish municipalities. *Injury Prevention*, 22(6), 412-419.
77. **Bonander, C.**, Andersson, R. & Nilson, F. (2015). The effect of stricter licensing on road traffic injury events involving 15 to 17-year-old moped drivers in Sweden: a time series intervention study. *Accident Analysis & Prevention*, 83, 154-161.
78. **Bonander, C.**, Jonsson, A., & Nilson, F. (2015). Investigating the effect of banning non-reduced ignition propensity cigarettes on fatal residential fires in Sweden. *European Journal of Public Health*, 26(2), 334-338.
79. Nilson, F., **Bonander, C.**, & Jonsson, A. (2015). Differences in determinants amongst individuals reporting residential fires in Sweden—results from a cross-sectional study. *Fire Technology*, 51, 615-626.
80. Gustavsson, J., **Bonander, C.**, Andersson, R., & Nilson, F. (2015). Investigating the fall-injury reducing effect of impact absorbing flooring among female nursing home residents: initial results. *Injury Prevention*, 21(5), 320-32.
81. Nilson, F., **Bonander, C.**, & Andersson, R. (2014). The effect of the transition from the ninth to the tenth revision of the International Classification of Diseases on external cause registration of injury morbidity in Sweden. *Injury Prevention*, 21(3), 189-194.
82. **Bonander, C.**, Nilson, F., & Andersson, R. (2014). The effect of the Swedish bicycle helmet law for children: an interrupted time series study. *Journal of Safety Research*, 51, 15-22.

List of Reports, Commentaries and Other Non-Peer-Reviewed Publications

1. Brodeur, A., **et al.** (2025). Comparing Human-Only, AI-Assisted, and AI-Led Teams on Assessing Research Reproducibility in Quantitative Social Science (no. 195). *I4R Discussion Paper Series*.
2. Strömberg, U., Dillner, J., Milerad, H., **et al.** (2024) Geomappning av täckningsgrad för den gynekologiska cellprovtagningen: Ett underlag till hjälp för att rikta insatser. Regionala Cancercentrum i Samverkan.
3. Strömberg, U., **Bonander, C.**, Svensson, M. & Gustavsson, J. (2024). Grovhuggen precisionsprevention kan visa sig vara mycket träffsäker. *Läkartidningen*, 50-52/2024.
4. Brodeur, A., Mikola, D., Cook, N., **et al.** (2024). Mass Reproducibility and Replicability: A New Hope (No. 107). *I4R Discussion Paper Series*.
5. **Bonander, C.**, Jakobsson, N., & Johansson, N. (2023). Reproduction and replication analyses of Andersson (2019): A replication report from the Toronto Replication Games (No. 26). *I4R Discussion Paper Series*.
6. **Bonander, C.**, Chauca Strand, G., & Jakobsson, N. (2023). Direct replication and additional sensitivity analyses for Altindag et al. (2022): A replication report from the Oslo Replication Games (No. 16). *I4R Discussion Paper Series*.
7. Strömberg, U., **et al.** (2022) Geomapping av deltagandet i det nationella screening-programmet mot livmoderhalscancer. Regionala Cancercentrum i Samverkan.
8. **Bonander, C.**, Kiadaliri, A., Nilsson, A. (2021) Metoder för kausal inferens i observationsstudier (III): Regression discontinuity. *Medlemstidning för Svensk Epidemiologisk Förening (SVEP)*, 39(2).

9. Kiadaliri, A., Nilsson, A., **Bonander, C.** (2021) Methods for causal inference in observational studies (II): Difference-in-differences. *Medlemstidning för Svensk Epidemiologisk Förening (SVEP)*, 39(1).
10. Nilsson, A., **Bonander, C.**, Kiadaliri, A. (2020) Metoder för kausal inferens i observationsstudier (I): Instrumentvariabelmetoden. *Medlemstidning för Svensk Epidemiologisk Förening (SVEP)*, 38(4).
11. **Bonander, C.**, & Strömberg, U. (2019). Methods to handle missing values and missing individuals. *European Journal of Epidemiology*, 34(1), 5-7.
12. **Bonander, C.**, Nilson, F. (2017). Sociodemografiska skillnader i risken för bostadsbrand, prevalens av brandskydd i hemmet och hantering av bränder: en analys av nationella enkäter 2001, 2005 och 2008. Karlstad: Karlstad University.
13. **Bonander, C.** (2016). Assessing the effects of societal injury control interventions (Doctoral dissertation, Karlstad University).
14. **Bonander, C.** (2015). Searching for causal effects of road traffic safety interventions: applications of the interrupted time series design (Licentiate thesis, Karlstad University).
15. Nilson, F., Gustavsson, J., **Bonander C.** (2014). Accidents and Injuries from a Historical Perspective. Book chapter in Moniruzzaman, S., Nilson F., Svensson, E. (eds) *Via Spatiosa: Festschrift to Ragnar Andersson on his 67th birthday*. ISBN: 978-91-7063-596-0. Karlstad: Karlstad University Studies.
16. **Bonander, C.**, Jernbro, C., Andersson, R. (2014). Funktionsnedsättningar som riskfaktor för olycksfall och andra skador. MSB Report No. 664.
17. **Bonander, C.**, Gustavsson, J., Andersson, R. (2014). Säker cykling: Vägledning för systematiskt cykelsäkerhetsarbete i lokalsamhället. Karlstad: Karlstad University.
18. **Bonander, C.**, Gustavsson, J., Andersson, R. (2013). Evidensbaserade åtgärder för cyklisters säkerhet: kunskapsöversikt. Karlstad: Karlstad University.

Other Academic Contributions:

Conference Participation

1. **Bonander, C.** Evaluation of geographically located interventions using a spatiotemporal Bayesian counterfactual modelling approach. (Oral presentation, *Nordic Conference of Epidemiology and Register-Based Health Research*, Copenhagen, Denmark, 2024)
2. **Bonander, C.** A Capture-Recapture-Based Ascertainment Probability Weighting Method for Effect Estimation with Under-Ascertained Outcomes (with an application to COVID-19 testing data). (Oral presentation, *1st SWECOV Workshop*, Stockholm, 2023)
3. **Bonander, C.**, Stranges, D., Gustavsson, J., Almgren, M., Inghammar, M., Moghaddassi, M., ... & Bjork, J. (2021). A regression discontinuity analysis of the social distancing recommendations for older adults in Sweden during COVID-19. (Oral & poster presentation, *State of the Art Covid-19*, Svenska läkarsällskapet, Online conference, 2021).
4. **Bonander, C.**, Nilsson, A., Bergström, G., Björk, J. & Strömberg, U. Generalizing the results from population-based cohort studies using register data. (Oral presentation, *Nordic Conference of Epidemiology and Register-Based Health Research*, Tampere, Finland, 2019)
5. Svensson, M, **Bonander, C.** Using Causal Forests to Assess Heterogeneity in Cost-Effectiveness Analysis. (Poster presentation, *Society for Medical Decision Making*, Portland, Oregon, USA, 2019)
6. **Bonander C.** Data-driven incidence difference-in-differences estimators for causal inference with aggregate counts and rates. (Poster presentation, *World Safety conference*, Bangkok, Thailand, 2018)

7. Jonsson, A., Nilson, F., **Bonander, C.**, & Huss, F. (2018). PA 07-5-2570 Seriously injured due to residential fires in Sweden. *Injury Prevention*, 24(Suppl 2), A16.
8. **Bonander C.**, Gustavsson J, Nilson F. 501 Can the provision of a home help service for the elderly population reduce the incidence of fall-related injuries? *Injury Prevention* 2016;22:A181. (Poster presentation, *World Safety* conference, Tampere, Finland, 2016)
9. **Bonander, C.**, Nilson, F., Andersson, R. The effect of the Swedish bicycle helmet law for children: an interrupted time series analysis. (Oral presentation, *ESCON Safe Community*, Harstad, Norway, 2014)

Selected Invited Lectures and Popular Scientific Talks

1. "Så skyddar du dig bäst från att falla utomhus i halkan", Vetenskapsradion Hälsa, Sveriges Radio, January, 2024. Recording: <https://sverigesradio.se/avsnitt/sa-skyddar-du-dig-bast-fran-att-falla-utomhus-i-halkan>
2. "Utvärdering broddprogram", Tema Säker gångtrafik - Fokus fallolyckor, Trafikverket Webinar Series, September, 2023.
3. "Är SCAPIS ett representativt urval?", SCAPIS Forskarmöte 2022, Stockholm, October 2022.
4. "Synthetic Control Methods", What Works for Children's Social Care Methods Seminar Series, March 2022.
5. "Synthetic control methods: introduction and overview of recent developments", DSPI Research Methods Seminar Series, Department of Social Policy and Intervention, Oxford University, April 2021. Recording: <https://youtu.be/e5hmK5GzCHc>
6. "The Seven Deadly Sins of Evidence-Based Public Safety", MSB Baltic Sea Workshop, The Swedish Civil Contingencies Agency, Karlstad, October 2019.
7. Presentation of impact evaluation results for an ice cleat distribution program in Gothenburg (with Robin Holmberg); Swedish Association of Local Authorities and Region's conference (*Trafik- och gatudagar*), Stockholm, October 2017.

Conference Organization

1. Parallel sessions moderator at *ESCON Safe Community* conference, Harstad, Norway, 2014.

Software

1. **Bonander, C.** *CEAforests*: Tree-based heterogeneous cost-effectiveness and policy learning. R package. <https://github.com/bonander/CEAforests/>
2. **Bonander, C.** *CSCM*: Synthetic Controls for Count Data. R functions available at: <https://osf.io/uvt5p/>