

CURRICULUM VITAE

MICHELE SANTACATTERINA, PhD

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CURRENT ACADEMIC APPOINTMENTS

2021 - Present Assistant Professor, Division of Biostatistics, Department of Population Health (DPH)
New York University Grossman School of Medicine (NYUM)
2022 - Present Visiting Researcher, Google LLC
2023 - Present Adjunct Professor of Biostatistics, Rockefeller University
2024 - Present Affiliated Faculty, NYU Center for Data Science

EDUCATION AND TRAINING

Education

| Year | Degree | Field | Institution |
|------|--------|---------------|--|
| 2009 | B.S. | Statistics | University of Padua, Padua, Italy |
| 2012 | M.S. | Biostatistics | University of Milano-Bicocca, Milan, Italy |
| 2018 | Ph.D. | Biostatistics | Karolinska Institute, Stockholm, Sweden |

Postdoctoral Training

2018-2020 Data Science Dr. Nathan Kallus, Cornell University, New York, NY

PREVIOUS APPOINTMENTS AND LEADERSHIP POSITIONS

2020-2021 Assistant Professor George Washington University (GWU), Washington DC, DC

RESEARCH ACTIVITY

Personal statement

Data science methods, such as statistical, machine learning, deep learning, and causal inference, and optimization techniques, have become a central part of the decision-making process in healthcare. My research revolves around developing and applying robust data science methods to improve healthcare decision-making with real-world data. Application areas include, but are not limited to, estimating treatment effects from real-world observational studies, generalizing treatment effects from randomized trials to real-world populations, predicting health outcomes, and estimating individualized and dynamic treatment regimes for personalized medicine.

Grant History

| Principal Investigator | Funding Agency | Role | Effort | Project Title |
|------------------------|----------------|------|--------|--|
| Active | | | | |
| Michele Santacatterina | NSF | PI | 16% | SCH: Interpretable survival analysis of complex longitudinal data |
| Glenn Saxe | NIH | Co-I | 7% | Center on causal data science for child maltreatment prevention |
| Magdalena Cerda | NIH | Co-I | 10% | A comparative evaluation of overdose prevention program |
| Andrea Troxel | NINDS | Co-I | 5% | EPPIC-NET DCC |
| Charles Neighbors | NIH | Co-I | 7% | Quality of care for opioid use disorder |
| Nunzio Pomara | NIA | Co-I | 5% | Depression Treatment and A β Dynamics |
| Donald Goff | NIH | Co-I | 5% | Levetiracetamin in First Episode Psychosis |
| Donald Goff | NIH | Co-I | 5% | Hippocampal memory circuits in delusions |
| Naomi Simon | NIH | Co-I | 10% | CBD for social anxiety disorder |
| Amanda Bunting | NIH | Co-I | 5% | STAIR-NT Trauma Intervention for Polysubstance Populations |
| Naomi Simon | NCCIH | Co-I | 7% | MBSR in Generalized Anxiety Disorder |
| Stacy Loeb | NIH | Co-I | 2.5% | Addressing Misinformation to Promote Equity in Prostate Cancer Care |
| Stacy Loeb | DoD | Co-I | 5% | Promote Equity in Prostate Cancer Care Among Hispanic/Latinx Men |
| Aaron Johnson | NIDCD | Co-I | 5% | Effect of vocal fold injury on laryngeal muscle dysfunction |
| Pending | | | | |
| Michele Santacatterina | NSF | PI | 17% | SCH: Advancing methodology for adaptive randomized experiments: a structural causal machine learning framework |
| Michele Santacatterina | NIMH | PI | 57% | Integrating real-world data to conduct replication studies in schizophrenia |
| Donald Goff | NIMH | Co-I | 20% | Mitochondrial function in mid-life and late-life schizophrenia |
| Donald Goff | NIMH | Co-I | 10% | Suvorexant for paranoia |
| Naomi Simon | NIH | Co-I | 10% | Elucidating Cognitive and Neural Mechanisms of DSM-5 Prolonged Grief Disorder |
| Amanda Bunting | NIH | Co-I | 5% | A community-based business intervention for neighborhood overdose prevention |
| Amanda Bunting | NIH | Co-I | 5% | Optimizing a mobile app-based PTSD treatment for patients receiving methadone maintenance treatment |
| Amanda Bunting | NIH | Co-I | 5% | Implementation of a local community overdose prevention and response intervention |
| Nunzio Pomara | NIH | Co-I | 3% | TREM2-Related Activation and Vulnerability to Alzheimer's Disease in Depression |
| David Landsberger | NIH | Co-I | 3% | Predicting outcomes in cochlear implant candidates with acoustic hearing |
| David Charytan | NIH | Co-I | 10% | Precision approach to dialysate potassium prescription |
| Steve Ross | NIH | Co-I | 5% | Psilocybin-assisted Psychotherapy to Treat Fear of Cancer Recurrence in Early-Stage Breast Cancer |
| Michael Bogenschutz | NIH | Co-I | 15% | Evaluation of psilocybin as an adjunctive treatment for opioid use disorder in methadone-maintained patients who continue to use illicit opioids |
| Jose Aleman | NIH | Co-I | 5% | Early Time Restricted Eating Effects on Bariatric Weight Regain |
| Alan Schlechter | NIH | Co-I | 3% | A Low Cost Behavioral Neuroscience-based Intervention to Decrease Youth Mental Health Services Dropout: The Positive Approach |

EDUCATION ACTIVITY

Teaching Activities

Fall 2022 — Statistical Learning, Graduate Level Course for PhD students in Biostatistics, *Course Co-Director*, NYUM

Spring 2023 — Statistical Inference II, Graduate Level Course for PhD students in Biostatistics, *Course Co-Director*, NYUM

03/2023 — Applied Causal Inference for Real-World Observational Studies, half-day course, *Course Director*, ENAR

06/2023 — Causal Inference in Epidemiology, week-long course, *Course Director*, Summer School on Modern Methods in Biostatistics and Epidemiology

Fall 2023 — Modern Causal Inference Methods, Graduate Level Course for PhD students in Biostatistics, *Course Co-Director*, NYUM

03/2024 — Applied Causal Inference for Real-World Observational Studies, 1-day course, *Course Director*, Harvard Catalyst

Spring 2024 — Statistical Inference II, Graduate Level Course for PhD students in Biostatistics, *Course Co-Director*, NYUM

Spring 2025 — Statistical Inference II, Graduate Level Course for PhD students in Biostatistics, *Course Co-Director*, NYUM

06/2025 — Causal Inference in Epidemiology, week-long course, *Course Director*, Summer School on Modern Methods in Biostatistics and Epidemiology

Invited Talks and Teaching of Peers

Internal

Sponsored by NYU Langone Health

09/2021 — Invited Talk, Real-World SARS-CoV-2 Vaccine Effectiveness in North Carolina: The COVID-19 Community Research Partnership., Division of Biostatistics Seminar, DPH, NYUM

09/2022 — Invited Talk, Deep Survival Analysis with Longitudinal X-rays for COVID-19., DPH seminar series, NYUM

09/2022 — Invited Lecture, Introduction to causal inference, NYUM Biomedical Informatics Masters Training Program, NYUM

External to NYU

09/2014 — Poster, Antiretroviral therapy among HIV-infected people who inject drugs in Sweden: access and treatment response. HIV Nordic conference.

09/2015 — Invited Talk, Weight watchers: How to optimize your weight. Nordic and Baltic Stata Users Group meeting.

09/2016 — Talk, Optimal probability weights for inference with constrained precision. Royal Statistical Society International Conference.

04/2017 — Poster, Estimating treatment effects with optimal inverse probability weighting. UK Causal Inference Meeting.

09/2017 — Talk, Estimating treatment effects with optimal inverse probability weighting. Royal Statistical Society International Conference.

10/2017 — Invited Talk, Optimal probability weights for inference with constrained precision. MELODEM Selection Group Meeting.

04/2018 — Talk, Optimal balancing of time-dependent confounders for marginal structural models Second. EUROCIM Causal Inference 2018.

09/2018 — Invited Talk, Optimal Weighting for Causal Inference. Cornell - AI Seminar.

10/2018 — Talk, Optimal balancing of time-dependent confounders for marginal structural models Second. TRIPODS PI meeting.

- 05/2019 — Talk and poster, Optimal estimation of generalized average treatment effects using Kernel Optimal Matching. Atlantic Causal Inference Conference 2019.
- 09/2019 — Invited Talk, Kernel optimal orthogonality weighting: a balancing approach to estimating effects of continuous treatments. Cornell Machine Learning in Medicine.
- 01/2020 — Invited Talk, Kernel optimal orthogonality weighting: a balancing approach to estimating effects of continuous treatments. McGill Department of Biostatistics - Biostatistics Seminar.
- 03/2020 — Invited Talk, IMS invited session on challenges for precision medicine. ENAR 2020
- 08/2020 – Invited Talk, Optimal estimation of generalized average treatment effects using Kernel Optimal Matching., JSM 2020 - Health policy statistics section.
- 12/2020 – Talk, Optimal Weighting for Estimating Generalized Average Treatment Effects, Harvard - Machine Learning and Causal Inference Reading group.
- 02/2021 – Invited Talk, Optimal Weighting for Estimating Generalized Average Treatment Effects, GWU - Statistics Seminar Series.
- 03/2021 – Talk, Robust Weights that Optimally Balance Confounders for Estimating the Effect of Binary and Continuous Treatments with Time-to-event Data., ENAR 2021.
- 08/2021 – Talk, Optimal Weighting for Estimating Generalized Average Treatment Effects, JSM 2021.
- 04/2022 – Invited Talk, Optimal Weighting for Causal Inference, Columbia Causal Inference Learning Seminar 2022.
- 05/2022 – Poster, A double machine learning estimator to generalize survival curves from trials to real-world target populations, American Causal Inference Conference 2022.
- 05/2022 – Poster, Scalable Bootstrap Algorithms for Causal Inference with Large Real-World Data, American Causal Inference Conference 2022.
- 12/2022 – Invited Talk, Optimal Weighting for Causal Inference, 14th International Conference of the ERCIM WG on Computational and Methodological Statistics.
- 04/2023 – Invited Talk, Applied Causal Inference for Observational Studies, Seminar Series, Center for Biostatistics, Mount Sinai.
- 02/2024 – Invited Talk, Exploring the role of AI in medical research: a causal perspective, R³/AI talk, Rockefeller University, New York.
- 05/2024 – Invited Talk, Identification and estimation of causal effects using non-concurrent controls in platform trials, SCT 2024, Boston.
- 05/2024 – Invited Talk, Identification and estimation of causal effects using non-concurrent controls in platform trials, ACIC 2024, Seattle.
- 08/2024 – Invited Talk, Identification and estimation of causal effects using non-concurrent controls in platform trials, JSM 2024, Portland.

Mentoring and Advising

Predoctoral students supervised and/or mentored

Master students

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|-------------------|------------------|---------------|-----------------------|------------------|
| 07/2015 - 11/2017 | Chiara Chiavenna | Biostatistics | Karolinska Institutet | Mentor |
| 08/2017 - 12/2017 | Claudia Carlucci | Biostatistics | Karolinska Institutet | Mentor |
| 10/2019 - 06/2020 | Yaniv Ravid | ORIE | Cornell | Research advisor |

10/2020 - 08/2021 Nolan Kuenster Epidemiology GWU Research advisor

Doctoral students

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|-------------------|-----------------------|---------------|------|------------------|
| 01/2022 - 04/2022 | Axel Martin | Biostatistics | NYUM | Rotation advisor |
| 05/2022 - Present | Axel Martin | Biostatistics | NYUM | Research advisor |
| 01/2023 - 04/2023 | Federico Macchiavelli | Biostatistics | NYUM | Rotation advisor |
| 05/2023 - 08/2023 | Antonio D'Alessandro | Biostatistics | NYUM | Rotation advisor |
| 09/2023 - Present | Antonio D'Alessandro | Biostatistics | NYUM | Research advisor |
| 08/2023 - 12/2023 | Xinyi Zhang | Biostatistics | NYUM | Rotation advisor |
| 08/2024 - Present | Xinyi Zhang | Biostatistics | NYUM | Research advisor |
| 08/2023 - 12/2023 | Jiacheng Ge | Biostatistics | NYUM | Rotation advisor |
| 10/2024 - Present | Matas Griskaitis | Epidemiology | NYUM | Rotation advisor |
| 10/2024 - Present | Richard Liu | Biostatistics | NYUM | Rotation advisor |
| 08/2023 - 12/2023 | Jiacheng Ge | Biostatistics | NYUM | Rotation advisor |

Dissertation committee

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|--------------------|-----------|---------------|------|-------------------------------|
| 10/2021 - Present, | Juan Gago | Epidemiology | NYUM | Dissertation Committee Member |
| 01/2023 - Present, | Danni Wu | Biostatistics | NYUM | Dissertation Committee Member |

NIH K award

11/2024 - Present, Soumik Mandal NYUM K Award Mentor

INSTITUTIONAL, LOCAL/NATIONAL SERVICE AND RELATED ACTIVITY

Institutional Service

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|----------------|---|
| 2022 - 2024 | NYUM Faculty Senator, NYUM |
| 2021 - Present | DPH Anti Racism Town Hall Member, NYUM |
| 2023 - Present | Working group development and symposium development, Co-Champion, DPH, NYUM |
| 2023 - Present | PhD program review and curriculum development, Co-Champion, NYU |
| 2023 - 2024 | Symposium in advances in causal inference methods, Co-Champion, NYU |

Professional Service for Professional Organizations

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|----------------|---|
| 2024 | Invited scientific reviewer for PCORI's Cycle 1, 2024 Broad Pragmatic Studies |
| 2024 | Invited reviewer for an NSF-NIH panel on Smart and Connected Health |
| 2023 | Chair of an abstract parallel session on generalizability, Society for Causal Inference |
| 2018 - Present | Committee Member of the European Causal Inference Society (EUROCIM) |

Advisory Boards and Consultant Positions

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| 2024 - Present | DSMB chair for the study Targeting Dopamine-Mediated Social Reward Sensitivity to Remediate Social Disconnection (NIH-R61 Project) |
| 2022 - Present | Data and Safety Monitoring Board (DSMB) for multiple studies funded by NIMH/NIH (role: statistician) |

Organizing Roles in Scientific Meetings

2019 Organizer of the symposium: Optimization methods for causal inference

Atlantic Causal Inference Conference 2019

- 2019 Organizer of the workshop: “Do the right thing”: machine learning and causal inference for improved decision making, NeurIPS, 2019
- 2021 Organizer and chair of the invited paper session: Leveraging real-world data for improved medical decision-making: challenges, opportunities, and recent developments ENAR 2021
- 2023 Program chair of the Generalization and Transportability session at ACIC 2023

Editorial and Journal Positions

Ad Hoc Reviewer: Journal of the American Statistical Association; Annals of Applied Statistics; Journal of the Royal Statistical Society - Series A; Biometrical Journal; Computational Statistics and Data Analysis; NeurIPS; ICML; AISTAT; Nature Machine Intelligence; BMC Medical Research Methodology; Epidemiological methods; Statistics in Biopharmaceutical Research; Clinical Infectious Diseases

BIBLIOGRAPHY

Peer-reviewed Publications - Statistical and Data Science Methodology

1. Kallus, N., Pennicooke, B. & **Santacatterina**, M. (2021), ‘More robust estimation of average treatment effects using kernel optimal matching in an observational study of spine surgical interventions’, *Statistics in medicine* **40**(10), 2305–2320.
2. Kallus, N. & **Santacatterina**, M. (2021), ‘Optimal balancing of time-dependent confounders for marginal structural models’, *Journal of Causal Inference* **9**(1), 345–369.
3. Kallus, N. & **Santacatterina**, M. (2022), ‘Optimal weighting for estimating generalized average treatment effects’, *Journal of Causal Inference* **10**(1), 123–140.
4. Kosko, M., Wang, L. & **Santacatterina**, M. (2024), ‘A fast bootstrap algorithm for causal inference with large data’, *to appear in Statistics in Medicine*.
5. **Santacatterina**, M. et al (2019), ‘Optimal probability weights for estimating causal effects of time-varying treatments with marginal structural cox models’, *Statistics in medicine* **38**(10), 1891–1902.
6. Shu, M., Bowen, R. S., Herrmann, C., Qi, G., **Santacatterina**, M. & Zabih, R. (2021), Deep survival analysis with longitudinal x-rays for covid-19, *in* ‘Proceedings of the IEEE/CVF International Conference on Computer Vision’, pp. 4046–4055.
7. Su, Y., Wang, L., **Santacatterina**, M. & Joachims, T. (2019), Cab: Continuous adaptive blending for policy evaluation and learning, *in* ‘International Conference on Machine Learning’, PMLR, pp. 6005–6014.
8. **Santacatterina**, M. (2023), ‘Robust weights that optimally balance confounders for estimating marginal hazard ratios’, *Statistical methods in medical research* p. 09622802221146310.
9. **Santacatterina**, M. & Bottai, M. (2018), ‘Optimal probability weights for inference with constrained precision’, *Journal of the American Statistical Association* **113**(523), 983–991.
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10. **Santacatterina**, M., Burke, B., Gunaratne, M., Weintraub, W. S., Espeland, M. A., Correa, A., Friedman-Klabanoff, D., Gibbs, M., Herrington, D., Miller, K. E. et al. (2023), ‘Using repeated antibody testing to minimize bias in estimates of prevalence and incidence of sars-cov-2 infection’, *Epidemiologic Methods* **12**(1), 20230012.

Peer-reviewed Publications - Medical and Population Health research

1. Calamari, L. E., Tjaden, A. H., Edelstein, S. L., Weintraub, W. S., Santos, R., Gibbs, M., Ward, J., **Santacatterina**, M., Bertoni, A. G., Ward, L. M. et al. (2022), 'Self-reported mask use among persons with or without sars cov-2 vaccination—united states, december 2020–august 2021', *Preventive medicine reports* **28**, 101857.
2. Chan, A. K., **Santacatterina**, M., Pennicooke, B., Shahrestani, S., Ballatori, A. M., Orrico, K. O., Burke, J. F., Manley, G. T., Tarapore, P. E., Huang, M. C. et al. (2020), 'Does state malpractice environment affect outcomes following spinal fusions? a robust statistical and machine learning analysis of 549,775 discharges following spinal fusion surgery in the united states', *Neurosurgical focus* **49**(5), E18.
3. Cuong, D. D., Agneskog, E., Chuc, N. T. K., **Santacatterina**, M., Sönnerborg, A. & Larsson, M. (2012), 'Monitoring the efficacy of antiretroviral therapy by a simple reverse transcriptase assay in hiv-infected adults in rural vietnam', *Future Virology* **7**(9), 923–931.
4. Cuong, D. D., Sönnerborg, A., Van Tam, V., El-Khatib, Z., **Santacatterina**, M., Marrone, G., Chuc, N. T. K., Diwan, V., Thorson, A., Le, N. K. et al. (2016), 'Impact of peer support on virologic failure in hiv-infected patients on antiretroviral therapy—a cluster randomized controlled trial in vietnam', *BMC infectious diseases* **16**(1), 1–14.
5. De Costa, A., Vora, K. S., Ryan, K., Sankara Raman, P., **Santacatterina**, M. & Mavalankar, D. (2014), 'The state-led large scale public private partnership 'chiranjeevi program'to increase access to institutional delivery among poor women in gujarat, india: How has it done? what can we learn?', *PLoS One* **9**(5), e95704.
6. *Duration of SARS-CoV-2 sero-positivity in a large longitudinal sero-surveillance cohort: the COVID-19 Community Research Partnership* (2021), *BMC Infectious Diseases* **21**, 1–11.
7. Friedman-Klabanoff, D. J., Tjaden, A. H., **Santacatterina**, M., Munawar, I., Sanders, J. W., Herrington, D. M., Wierzba, T. F., Berry, A. A. et al. (2022), 'Vaccine-induced seroconversion in participants in the north carolina covid-19 community research partnership', *Vaccine* **40**(42), 6133–6140.
8. Frontera, J. A., Tamborska, A. A., Doheim, M. F., Garcia-Azorin, D., Gezegen, H., Guekht, A., Yusof Khan, A. H. K., **Santacatterina**, M., Sejvar, J., Thakur, K. T. et al. (2022), 'Neurological events reported after covid-19 vaccines: an analysis of vaccine adverse event reporting system', *Annals of Neurology* **91**(6), 756–771.
9. Garcia-Azorin, D., Baykan, B., Beghi, E., Doheim, M. F., Fernandez-de Las-Penas, C., Gezegen, H., Guekht, A., Hoo, F. K., **Santacatterina**, M., Sejvar, J. et al. (2022), 'Timing of headache after covid-19 vaccines and its association with cerebrovascular events: An analysis of 41,700 vaers reports', *Cephalalgia* **42**(11-12), 1207–1217.
10. Häggblom, A., **Santacatterina**, M., Neogi, U., Gisslen, M., Hejdeman, B., Flamholz, L. & Sönnerborg, A. (2017), 'Effect of therapy switch on time to second-line antiretroviral treatment failure in hiv-infected patients', *Plos one* **12**(7), e0180140.
11. Karlsson, N., **Santacatterina**, M., Käll, K., Hägerstrand, M., Wallin, S., Berglund, T. & Ekström, A. M. (2017), 'Risk behaviour determinants among people who inject drugs in stockholm, sweden over a 10-year period, from 2002 to 2012', *Harm reduction journal* **14**, 1–11.
12. Lee, J., Ruiz-Cardozo, M. A., Patel, R. P., Javeed, S., Lavadi, R. S., Newsom-Stewart, C., Alyakin, A., Molina, C. A., Agarwal, N., Ray, W. Z. et al. (2024), 'Clinical prediction for surgical versus nonsurgical interventions in patients with vertebral osteomyelitis and discitis'.
13. Longinetti, E., **Santacatterina**, M. & El-Khatib, Z. (2014), 'Gender perspective of risk factors associated with disclosure of hiv status, a cross-sectional study in soweto, south africa', *PLoS One* **9**(4), e95440.
14. Madhvani, N., Longinetti, E., **Santacatterina**, M., Forsberg, B. C. & El-Khatib, Z. (2015), 'Correlates of mobile phone use in hiv care: Results from a cross-sectional study in south africa', *Preventive medicine reports* **2**, 512–516.

15. Nemani, K., De Picker, L., Dickerson, F., Leboyer, M., **Santacatterina**, M., Ando, F., Capichioni, G., Smith, T. E., Kammer, J., El Abdellati, K. et al. (2024), 'Anti-spike antibody responses to sars-cov-2 mrna vaccines in people with schizophrenia and schizoaffective disorder', *Brain, Behavior, & Immunity-Health* p. 100802.
16. Neogi, U., Häggblom, A., **Santacatterina**, M., Bratt, G., Gisslén, M., Albert, J. & Sonnerborg, A. (2014), 'Temporal trends in the swedish hiv-1 epidemic: increase in non-b subtypes and recombinant forms over three decades', *PloS one* **9**(6), e99390.
17. Ojo, T., Ruan, C., Hameed, T., Malburg, C., Thunga, S., Smith, J., Vieira, D., Snyder, A., Tampubolon, S. J., Gyamfi, J. et al. (2022), 'Hiv, tuberculosis, and food insecurity in africa—a syndemics-based scoping review', *International journal of environmental research and public health* **19**(3), 1101.
18. Peacock Jr, J. E., Herrington, D. M., Edelstein, S. L., Seals, A. L., Plumb, I. D., Saydah, S., Lagarde, W. H., Runyon, M. S., Maguire, P. D., Correa, A. et al. (2022), 'Survey of adherence with covid-19 prevention behaviors during the 2020 thanksgiving and winter holidays among members of the covid-19 community research partnership', *Journal of Community Health* **47**(1), 71–78.
19. Pennicooke, B., **Santacatterina**, M., Lee, J., Elowitz, E. & Kallus, N. (2021), 'The effect of patient age on discharge destination and complications after lumbar spinal fusion', *Journal of Clinical Neuroscience* **91**, 319–326.
20. Sanders, J. W., Wierzba, T. F., Sanders, J. W., Herrington, D., Espeland, M. A., Williamson, J., Mongraw-Chaffin, M., Bertoni, A., Alexander-Miller, M. A., Castri, P. et al. (2022), 'The covid-19 community research partnership; a multistate surveillance platform for characterizing the epidemiology of the sars-cov-2 pandemic', *Biology Methods and Protocols* .
21. Schlacter, J. A., Kay-Rivest, E., Nicholson, J., **Santacatterina**, M., Zhang, Y., Jethanamest, D., Friedmann, D. R., McMenomey, S. O. & Roland, J. T. (2022), 'Cochlear implantation outcomes in patients with retrocochlear pathology: A systematic review and pooled analysis', *Otology & Neurotology* **43**(9), 980–986.
22. Sharma, M., Sanneving, L., Mahadik, K., **Santacatterina**, M., Dhaneria, S. & Stålsby Lundborg, C. (2013), 'Antibiotic prescribing in women during and after delivery in a non-teaching, tertiary care hospital in ujjain, india: a prospective cross-sectional study', *Journal of pharmaceutical policy and practice* **6**, 1–7.
23. Spitzer, E. R., Kay-Rivest, E., Waltzman, S. B., O'Brien-Russo, C. A., **Santacatterina**, M., Roland, J. T., Landsberger, D. M. & Friedmann, D. R. (2023), 'Acceptance and benefit of electroacoustic stimulation in children', *Otology & Neurotology* **44**(5), 453–461.
24. **Santacatterina**, M. & Bottai, M. (2016), 'Inferences and conjectures in clinical trials: a systematic review of generalizability of study findings', *Journal of Internal Medicine* **279**(1), 123–126.
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25. **Santacatterina**, M., Sanders, W., J. & Weintraub, S., W. (2021), 'Prevention of covid-19 with the bnt162b2 and mrna-1273 vaccines', *New England Journal of Medicine* **385**(19), 1817–1821.
26. Wang, R. S., Asfour, L., Yang, W., Zhang, Y., **Santacatterina**, M. & Jethanamest, D. (n.d.), 'Patient characteristics impacting adherence to serial observation for vestibular schwannomas', *Otolaryngology–Head and Neck Surgery* .
URL: <https://aao-hnsfjournals.onlinelibrary.wiley.com/doi/abs/10.1002/ohn.729>
27. Williamson, J. C., Wierzba, T. F., **Santacatterina**, M., Munawar, I., Seals, A. L., Pittman Ballard, C. A., Alexander-Miller, M., Runyon, M. S., McCurdy, L. H., Gibbs, M. A. et al. (2022), 'Analysis of accumulated sars-cov-2 seroconversion in north carolina: The covid-19 community research partnership', *Plos one* **17**(3), e0260574.

1. Behrouz, A., **Santacatterina**, M. & Zabih, R. (2024a), ‘Chimera: Effectively modeling multivariate time series with 2-dimensional state space models’, *arXiv preprint arXiv:2406.04320* .
2. Behrouz, A., **Santacatterina**, M. & Zabih, R. (2024b), ‘Mambamixer: Efficient selective state space models with dual token and channel selection’, *arXiv preprint arXiv:2403.19888* .
3. Kallus, N. & **Santacatterina**, M. (2019), ‘Kernel optimal orthogonality weighting: A balancing approach to estimating effects of continuous treatments’, *arXiv preprint arXiv:1910.11972* .
4. Martin, A., **Santacatterina**, M. & Díaz, I. (2024), ‘Non-parametric efficient estimation of marginal structural models with multi-valued time-varying treatments’, *arXiv preprint arXiv:2409.18782* .
5. Pham, K., Hirshberg, D. A., Huynh-Pham, P.-M., **Santacatterina**, M., Lim, S.-N. & Zabih, R. (2023), ‘Stable estimation of survival causal effects’, *arXiv preprint arXiv:2310.02278* .
Santacatterina et al.
6. **Santacatterina**, M., Macchiavelli, F., Zhang, X. & Diaz, I. (2024), ‘Identification and estimation of causal effects using non-concurrent controls in platform trials’, *arXiv preprint arXiv:2404.19118* .

Abstracts

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