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# Current appointments & affiliations

Associate Professor, Department of Economics, Uppsala University.

Docent, Department of Economics, Uppsala University.

Faculty Fellow, Uppsala Center for Fiscal Studies, Uppsala University.

## Past appointments

| 2023-2024 | Associate Professor (untenured), Department of Political Science, Yale University.             |
|-----------|--|
| 2023-2024 | Associate Professor (secondary), Department of Statistics & Data Science, Yale University.     |
| 2017-2023 | Assistant Professor, Department of Political Science, Yale University.                         |
| 2018-2023 | Assistant Professor (secondary), Department of Statistics & Data Science, Yale University.     |
| 2015-2017 | Post-doctoral Fellow, Department of Political Science & Department of Statistics, UC Berkeley. |

## Past affiliations

| 2022-2024 | Faculty Member, Institute for the Foundations of Data Science, Yale University. |
|-----------|---|
| 2017-2024 | Faculty Fellow, Institution for Social & Policy Studies, Yale University.       |

#### Education

2015 Ph.D., Economics, Uppsala University.

2010 B.Sc., Political Science & Economics, Uppsala University.

## **Publications**

Peer-reviewed journal publications

Aronow, Robins, Saarinen, Sävje & Sekhon (2025). Nonparametric identification is not enough, but randomized controlled trials are. *Observational Studies*, in print.

Harshaw, Sävje, Spielman & Zhang (2024). Balancing Covariates in Randomized Experiments with the Gram-Schmidt Walk Design. *Journal of the American Statistical Association*, in print.

Sävje (2024). Causal inference with misspecified exposure mappings: separating definitions and assumptions. *Biometrika*, 111(1), 1–15.

Harshaw, Sävje, Eisenstat, Mirrokni & Pouget-Abadie (2023). Design and analysis of bipartite experiments under a linear exposure-response model. *Electronic Journal of Statistics*, 17(1), 464–518.

Stommes, Aronow & Sävje (2023). On the reliability of published findings using the regression discontinuity design in political science. *Research & Politics*, 10(2).

Sävje (2022). On the inconsistency of matching without replacement. Biometrika, 109(2), 551-558.

Sävje, Higgins & Sekhon (2021). Generalized Full Matching. Political Analysis, 29(4), 423-447.

Sävje, Aronow & Hudgens (2021). Average treatment effects in the presence of unknown interference. *Annals of Statistics*, 49(2), 673–701.

Delevoye & Sävje (2020). Consistency of the Horvitz-Thompson estimator under general sampling and experimental designs. *Journal of Statistical Planning and Inference*, 207, 190–197.

Bengtsson, Sävje & Swartling Peterson (2020). Fetal iodine deficiency and schooling. *Scandinavian Journal of Economics*, 122(2), 582-621.

Higgins, Sävje & Sekhon (2016). Improving massive experiments with threshold blocking. *Proceedings of the National Academy of Sciences*, 113(27), 7369–7376.

Invited and conference publications

Sävje (2024). Rejoinder: Causal inference with misspecified exposure mappings: separating definitions and assumptions. *Biometrika*, 111(1), 25–29.

Sävje (2021). Randomization does not imply unconfoundedness. Workshop on the Neglected Assumptions in Causal Inference at ICML 2021.

Sävje (2020). Comment: Matching Methods for Observational Studies Derived from Large Administrative Databases. *Statistical Science*, 35(3), 356–360.

Aronow & Sävje (2020). Review: The Book of Why. Journal of the American Statistical Association, 115(529), 482-485.

## Software

GSWDesign.jl: Julia package with a fast implementation of the Gram-Schmidt Walk for balancing covariates in randomized experiments (also R wrapper).

distances: R package with tools for distance metrics.

quickmatch: Quick Generalized Full Matching in R.

quickblock: Quick Threshold Blocking in R.

scclust: C library for size-constrained clustering.

# Awards & fellowships

Best Paper Award at 2022 NeurIPS Workshop on Causal Machine Learning for Real-World Impact, with Christopher Harshaw and Yitan Wang.

Yale Junior Faculty Fellowship, 2019–2020.

Gosnell Prize for Excellence in Political Methodology, 2018, with P. M. Aronow and Michael Hudgens.

## Grants

Riksbankens Jubileumsfond, 2025–2027, SEK 3,122,255, as Co-PI with Christopher Harshaw.

NSF Methodology, Measurement, and Statistics Program, 2024–2027, USD 500,000, as Co-PI with Christopher Harshaw.

Planetary Solutions Project seed grant from the Climate Impact Innovation Fund and the Gordon Data and Environmental Sciences Research Grants, 2023–2024, USD 80,000, as Co-PI with Megan Ayers and Luke Sanford.

Swedish International Development Cooperation Agency, 2013–2015, SEK 2,595,000, with Niklas Bengtsson, Eva Mörk (PI) and Jonas Poulsen.

The Jan Wallander and Tom Hedelius foundation, 2013-2014, SEK 321,000.

## Research visits

- 2024 Data Science Lab, Hertie School. 2 weeks.
- 2024 Department of Economics, European University Institute. 2 weeks.
- Department of Mathematical Sciences, University of Copenhagen. 3 weeks.
- 2024 Harvard Data Science Initiative, Harvard University. 4 weeks.
- 2023 Department of Political Science, University of Chicago. 6 weeks.
- 2019-2020 Department of Political Science & Graduate School of Business, Stanford University. Full AY.
- 2013-2014 Department of Economics, UC Berkeley. Full AY.

#### **Presentations**

# Invited presentations

- 2025 Statistical Laboratory, University of Cambridge, scheduled.
- 2024 Data Science Lab, Hertie School.

Department of Economics, European University Institute.

Department of Mathematical Sciences, University of Copenhagen.

Department of Quantitative Theory and Methods, Emory University.

Harvard Data Science Initiative, Harvard University.

2023 Methodology, Organization, and Management Workshop, Harvard Business School.

International Conference on Design of Experiments, University of Memphis.

Applied Statistics Workshop, Harvard University.

Ben Recht's Lab, UC Berkeley.

Department of Economics, Yale University.

2021 Department of Economics, Rutgers University.

Econometrics and Statistics Colloquium, University of Chicago Booth School of Business.

Department of Political Science, NYU.

Department of Statistics, Stanford.

Cowles Foundation, New Haven.

Online Causal Inference Seminar, Stanford.

2020 Department of Political Science, UC San Diego.

Interdisciplinary Seminar in Quantitative Methods, University of Michigan.

Gillings School of Global Public Health, UNC Chapel Hill.

|        | Causal Inference Group, UC Berkeley.                                 |
|--------|--|
| 2019   | Causal Learning with Interactions Conference, Cemmap, London.        |
| .017   | Causal Inference Group, Stanford University.                         |
|        | Joint Statistical Meetings, Denver.                                  |
| 2018   | Joint Statistical Meetings, Vancouver.                               |
| .010   | Yamakawa Kenjiro Lecture, University of Tokyo.                       |
|        | European Causal Inference Meeting, University of Florence.           |
|        | Department of Political Science, NYU.                                |
|        | Department of Political Science, MIT.                                |
| 2016   | Columbia Business School, Columbia University.                       |
| 2015   | Department of Political Science, Yale University.                    |
|        | Department of Statistics, Uppsala University.                        |
|        | Institute for International Economic Studies, Stockholm University.  |
| 2014   | Quantitative Methodology in the Social Sciences Seminar, UC Berkeley |
|        | Department of Economics, Uppsala University.                         |
| 2013   | Department of Statistics, Umeå School of Business and Economics.     |
| 2012   | Department of Economics, Uppsala University.                         |
| Contri | buted presentations  |
| 2023   | Society for Political Methodology (PolMeth), Stanford University.    |
|        | American Causal Inference Conference, UT Austin.                     |
| 2022   | CMStatistics, London.  |
|        | Latin American PolMeth, University of San Andrés.                    |
|        | Society for Political Methodology (PolMeth), Washington University.  |
|        | American Causal Inference Conference, UC Berkeley.                   |
| 2021   | APSA Annual Meeting, Seattle.  |
|        | Society for Political Methodology, New York University.              |
| 2020   | Society for Political Methodology, University of Toronto.            |
| 2019   | Society for Political Methodology, MIT.                              |
|        | Atlantic Causal Inference Conference, McGill University.             |
| 2018   | APSA Annual Meeting, Boston.   |
| 2017   | Society for Political Methodology, University of Wisconsin-Madison.  |
|        | Atlantic Causal Inference Conference, University of North Carolina.  |
|        | Midwest Political Science Association, Chicago.                      |
| 2016   | Midwest Political Science Association, Chicago.                      |

|                             | UK Causal Inference Meeting, University of Bristol.        |  |  |
|-----------------------------|--|--|--|
| 2013                        | Uppsala Center for Labor Studies, Uppsala University.      |  |  |
|                             | Nordic Econometric Meeting, Norwegian School of Economics. |  |  |
| Presentations as discussant |  |  |  |
| 2023                        | Society for Political Methodology, Stanford.               |  |  |
| 2022                        | Latin American PolMeth, University of San Andrés.          |  |  |

Society for Political Methodology, University of Rochester.

2021 Society for Political Methodology, New York University.

Online Causal Inference Seminar, Stanford.

Online Causal Inference Seminar, Stanford.

2020 Society for Political Methodology, University of Toronto.

2019 Society for Political Methodology, MIT.

2017 Midwest Political Science Association, Chicago.

# **Teaching**

2015

Uppsala University

Econometrics I (grad). Fall 2024.

Econometric Theory (grad). Spring 2025.

Yale University

Data Science for Politics and Policy (undergrad). Spring 2018, 2019, 2021, 2022.

Causal Inference and Research Design (grad). Spring 2021, Fall 2021, 2022.

Foundations of Statistical Inference (grad). Spring 2019, Fall 2020, 2021, 2022.

Advanced Quantitative Methods (grad). Fall 2017, 2018.

The Application of Quantitative Methods (grad). Spring 2018.

#### **Students**

Dissertation committee chair

Amanda Weiss, Political Science, Yale, current.

Megan Ayers, Statistics, Yale, current.

Dissertation committee member

Thomas Crol, Economics, Uppsala, current.

Brandon Chow, Statistics, Yale, 2023. First job: Microsoft.

Chris Harshaw, Computer Science, Yale, 2022. First job: MIT & UC Berkeley (post doc), Columbia (AP).

Kyle Peyton, Political Science, Yale, 2020. First job: Australian Catholic University.

Molly Offer-Westort, Political Science and Statistics, Yale, 2019. First job: Stanford (post doc), U Chicago (AP).

Dahl Research Scholar mentor

Akhil Rajan, Political Science, Yale, 2018-2019.

Honors thesis advisor

Villem Wettermark, Economics, Uppsala, 2024.

Dissertation grading committee member

Mohammad Ghasempour, Statistics, Umeå University, 2024.

Lilla Orr, Political Science, Yale University, 2021.

John Ternovski, Political Science, Yale University, 2021.

Costanza Tortù, Eocnomics, IMT School for Advanced Studies Lucca, 2020.

#### Service

Uppsala University

Subfield Coordinator, Econometrics, 2024–2025.

Member of Department Board, 2024-2025.

Yale University

Graduate Admissions Committee, 2020–2021, 2022–2023.

Quantitative Methods General Exam Committee, 2019, 2020, 2021, 2022.

Organizer, MacMillan-CSAP Workshop on Quantitative Research Methods, 2018, 2019, 2021, 2022, 2023.

Social Science-Data Science Search Committee, 2018.

Disciplinary Service

Ad-hoc reviewer, Banff International Research Station, 2024.

Ad-hoc reviewer, National Science Foundation, 2021, 2022.

Committee member, Gosnell Prize for Excellence in Political Methodology, 2019.

Reviewer, American Statistical Association Biometrics Section Travel Awards, 2018.

Session organizer, Joint Statistical Meetings, 2018, 2023.

## Reviewer

American Journal of Political Science; American Political Science Review; American Statistician; Annals of Applied Statistics; Annals of Statistics; Biometrics; Biometrika; Biostatistics; Canadian Journal of Statistics; Communications in Statistics - Theory & Methods; Econometrica; Electronic Journal of Statistics; European Journal of Political Economy; Journal of the American Statistical Association; Journal of Business & Economic Statistics; Journal of Causal Inference; Journal of Computational and Graphical Statistics; Journal of Economic Behavior & Organization; Journal of Health Economics; Journal of Machine Learning Research; Journal of the Royal Statistical Society: Series A; Journal of the Royal Statistical Society: Series B; Management Science; Political Analysis; Political Science Research & Methods; The R Journal; Review of Economic Studies; Review of Economics and Statistics; Statistics & Probability Letters; Statistics & Public Policy.

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