

Greg Ridgeway

Rebecca W. Bushnell Professor of Criminology

University of Pennsylvania — Philadelphia, PA

(215) 573-9109 · gridge@upenn.edu

Education

- **Ph.D. – Statistics (1999)**

Dissertation: *Generalization of Boosting Algorithms and Applications of Bayesian Inference to Massive Datasets*

[Department of Statistics](#), University of Washington, Seattle, WA

Advisors: [David Madigan](#) and [Thomas Richardson](#)

- **M.S. – Statistics (1997)**

[Department of Statistics](#), University of Washington, Seattle, WA

- **B.S. – Statistics (1995)**

[California Polytechnic State University](#), San Luis Obispo, CA

Professional Experience

- **8/2014–present**, [Department of Criminology](#) and [Department of Statistics and Data Science](#), University of Pennsylvania

- Rebecca W. Bushnell Professor of Criminology (7/2022–present)

- Full Professor (7/2020–present)

- [Data-Driven Discovery Initiative](#), Co-director (2021–present)

- Chair, Department of Criminology (7/2019–6/2025)

- Associate Professor (8/2014–6/2020)

- Undergraduate Chair (7/2023–6/2024)

- [Quattrone Center for the Fair Administration of Justice](#), Penn Law (8/2015–present)
- [Center for Causal Inference](#), Perelman School of Medicine (8/2016–present)
- [Graduate Group in Epidemiology and Biostatistics](#), Perelman School of Medicine (12/2017–present)
- [Warren Center for Network and Data Science](#), SEAS (3/2023–present)
- [Population Studies Center](#) (1/2024–present)
- **1/2021–12/2025**, Co-editor-in-chief, [Journal of Quantitative Criminology](#)
- **7/2012–7/2014**, [National Institute of Justice](#), U.S. Department of Justice
Directed the Department of Justice’s science agency (approximately 80 staff; \$250M/year), advancing science and innovation in forensics, technology, and social science
 - Acting Director (1/2013–7/2014)
 - Deputy Director, Senior Executive Service (7/2012–7/2014)
- **7/2000–6/2012**, [RAND Corporation](#)
Led a major research portfolio on policing, courts, corrections, gangs, guns, drugs, and justice policy (approximately 50-person research team; ~40 proposals/year; ~\$10M/year projects)
 - RAND Safety & Justice Program, Director (1/2009–6/2012)
 - RAND Center on Quality Policing, Director (1/2008–6/2012)
 - RAND Safety & Justice Program, Acting Director (11/2007–1/2009)
 - [RAND Statistics Group](#), Senior Statistician (5/2007–6/2012)
 - RAND Safety & Justice Program, Associate Director (8/2006–11/2007)
 - [RAND Statistics Group](<https://www.rand.org/statistics.html>), Full Statistician (5/2003–5/2007)
 - [RAND Statistics Group](<https://www.rand.org/statistics.html>), Associate Statistician (7/2000–5/2003)
- **7/2001–8/2001**, Department of Sociology, University of Washington — Visiting Scholar
- **9/1999–6/2000**, Department of Statistics, University of Washington — Lecturer
- **6/1996–9/1997**, [Microsoft Research](#) — Research assistant

- **9/1993–9/1995**, California Department of Mental Health, [Atascadero State Hospital](#) — Research assistant (Clinical Safety Project)
- **8/1994–9/1995**, UC Berkeley Cooperative Extension — Research assistant (Integrated Hardwood Range Management Program)

University Service

- **2021–present**, Co-director, Data Driven Discovery Initiative
Launched a new data science initiative; staffing; post-doc program; data science for social good; seed grants; data science minor (with Bhuv Jain)
- **2022–present**, Committee member, Senate Committee on Students and Educational Policy
Advises on admissions, instruction, academic integrity, teaching evaluation, grading policies, student records, disciplinary systems, and campus environment
- **2019–2025**, Chair, Department of Criminology
Stimulated grant- and donor-funded research (especially Philadelphia justice policy analysis); secured strategic senior hires; seeded crime policy lab
- **2021–2024**, Committee member, Committee on Planning and Priorities
Advises SAS on emerging issues in education, research, and operations
- **2019–2021**, SAS Data Driven Discovery Working Group
Strategic planning on hiring, programming, data science coverage, and new opportunities
- **2014–2023**, Director, Master of Science in Criminology program
Admissions; career planning; alumni network; placements; joint programs (Fels, SP2, Law)
- **2018–2022**, Committee member, Committee on Undergraduate Education
Advises Dean and faculty on SAS undergraduate educational mission
- **2018–2020**, Committee member, Vice Provost for Education Fellowship Selection Committee
Selects nominees for limited-submission fellowships

Awards

- **2025**, [Fellow](#), American Society of Criminology
- **2024**, [Fellow](#), Academy of Experimental Criminology
- **2013**, [Fellow](#), American Statistical Association
- **2007**, American Statistical Association [Outstanding Statistical Application Award](#) (with J. Grogger) for “Testing for racial profiling in traffic stops from behind a veil of darkness.”
RAND Gold Medal Award for contributions advancing RAND’s mission.
- **2005**, Commendation by ATF Los Angeles Field Division and the Attorney General of California for contributions to reducing firearms-related crimes in Los Angeles.
RAND President’s Choice Award for developing pioneering methods for racial profiling.

- **1999**, Z.W. Birnbaum Award (UW Department of Statistics) for excellence in research and presentation.

Patent Awards

- **2014**
— US Patent [8,719,210](#): “System and Method for Medical Treatment Hypothesis Testing.” Granted May 6, 2014
- **2013**
— US Patent [8,538,906](#): “System and method for medical treatment hypothesis testing using relative likelihood of treatment results.” Granted September 17, 2013
- **2003**
— US Patent [6,606,613](#): “Methods and apparatus for using task models to help computer users complete tasks.” Granted August 12, 2003
- **2001**
— US Patent [6,330,554](#): “Methods and apparatus using task models for targeting marketing information to computer users based on a task being performed.” Granted December 11, 2001
— US Patent [6,195,622](#): “Methods and apparatus for building attribute transition probability models for use in pre-fetching resources.” Granted February 27, 2001
- **2000**
— US Patent [6,154,767](#): “Methods and apparatus for using attribute transition probability models for pre-fetching resources.” Granted November 28, 2000
— US Patent [6,088,718](#): “Methods and apparatus for using resource transition probability models for pre-fetching resources.” Granted July 11, 2000
— US Patent [6,012,052](#): “Methods and apparatus for building resource transition probability models for use in pre-fetching resources, editing resource link topology, building resource link topology templates, and collaborative filtering.” Granted January 4, 2000

Grants and Contracts

- **2020–2023** — Principal Investigator, “[Prosecutors and Criminal Justice Reform: Independent Research Partnership with the Philadelphia District Attorney’s Office](#),” Arnold Ventures, \$2,509,009 (with Aurelie Ouss)
- **2020–2022** — Co-Principal Investigator, “Evaluation of Philadelphia Group Violence Intervention,” Urban Affairs Coalition and Philadelphia Office of Violence Prevention, \$150,269 (with Ruth Moyer)
- **2020–2022** — Principal Investigator, “Crime Prevention Through Intelligence & Information Sharing,” Neubauer Family Foundation, \$543,298 (with Aaron Chalfin)

- **2016** — Site PI, “Disrupting Illegal Gun Transfers,” NIJ (prime: RAND), 2013-R2-CX-0016, \$42,118
- **2015–2016** — Site PI, “Replication of the Cardiff Violence Prevention Model in the United States,” RWJF (prime: NFCDC&PI), Grant 72352, \$213,572
- **2011–2012** — Program Director, “Developing the Center of Research and Security Studies,” Ministry of Interior, Abu Dhabi, \$1,500,000
- **2010–2012** — Co-PI, “NLECTC Information and Geospatial Technology Center of Excellence,” NIJ 2010-IJ-CX-K007, \$6,000,000 (with John Hollywood)
- **2010–2012** — Co-PI, “Experimental Evaluation of the BJA DMI Training and Technical Assistance Initiative,” BJA 2010-DJ-BX-1672, \$2,900,000 (with Beau Kilmer and Jessica Saunders)
- **2010–2012** — Co-PI, “Enabling the Police to Serve the Needs of 21st Century Israel,” Israel Ministry of Public Security and RAND Israel Policy Fund, \$1,600,000 (with Steven Popper)
- **2010–2012** — Principal Investigator, “Predictive Policing Analytic and Evaluation Research Support,” NIJ 2009-IJ-CX-K114, \$1,084,846
- **2008–2010** — Principal Investigator, “Case weighting for federal public defender services,” AOUSC USCA08F0404, \$564,510 (with Nick Pace)
- **2008–2012** — Principal Investigator, “Evaluation of the Los Angeles County Juvenile Justice Crime Prevention Act Programs,” LA County Probation, \$1,610,000 (with Terry Fain and Susan Turner)
- **2008** — Principal Investigator, “Development of internal benchmarking system,” New York City Police Foundation, \$32,000
- **2007** — Principal Investigator, “Assessment of racial bias in NYPD stop, question, and frisk practices,” New York City Police Foundation, \$120,000
- **2007–2008** — Principal Investigator, “Strategies for improving police recruiting,” San Diego Police Department, \$160,000
- **2006–2007** — Co-PI, “Analysis of Graduate Driver Licensing...,” NICHD 1R03HD052547-01, \$184,122 (with Pinar Karaca-Mandic)
- **2004–2009** — Principal Investigator, “Improving Police-Community Relations in Cincinnati,” City of Cincinnati 45X0028, \$1,581,300
- **2002–2004** — Principal Investigator, “DOJ Racial Profiling Initiative,” City of Oakland EM3.20.02, \$75,000
- **2001–2008** — Co-PI, “Strategic Disruption of Firearms Markets,” NIJ 2001-IJ-CX-0028,

\$647,952 (with George Tita)

- **2001–2002** — Principal Investigator, “Data mining and Columbia counterdrug strategies,” Office of the Secretary of Defense (three projects) \$57,845, \$27,965, \$19,165

Publications

Working papers

Ridgeway, G., & Loeffler, C. (2027). “Crime Statistics,” *Annual Review of Statistics and Its Applications*, 14.

Gyourko, J. R., & Ridgeway, G. “Safeguarding the Credit Records of Youth in Foster Care: What Interventions Reduce Risk of Child Identity Fraud?”

Peer-reviewed articles

G. Ridgeway (to appear). “[A Conditional Ordinal Stereotype Model to Estimate Police Officers’ Propensity to Escalate Force](#),” *Journal of the American Statistical Association*. (Data and code)

F.A. Amaral, C. Loeffler, & G. Ridgeway (2024). “[Prosecutorial discretion not to invoke the criminal process and its impact on firearm cases](#),” *Journal of Criminal Justice*, 95:102313.

J.R. Gyourko & G. Ridgeway (2024). “[Predictors of Identity Fraud Victimization of Adolescent Youth in Foster Care](#),” *Victims & Offenders*.

V. Nguyen & G. Ridgeway (2023). “[Judges on the Benchmark: Developing a Sentencing Feedback System](#),” *Justice Quarterly*, 41(1):1–37.

E.C. South, J.M. MacDonald, V.W. Tam, G. Ridgeway, C.C. Branas (2023). “[Effect of Abandoned Housing Interventions on Gun Violence, Perceptions of Safety, and Substance Use in Black Neighborhoods: A Citywide Cluster Randomized Trial](#),” *JAMA Internal Medicine* 183(1):31-39.

Z. F. Meisel, F. Shofer, A. Dolan, E. B. Goldberg, K. V. Rhodes, E. P. Hess, V. R. Bellamkonda, J. Perrone, C. C. Cannuscio, L. Becker, M. A. Rodgers, M. M. Zyla, J. J. Bell, S. McCollum, E. Engel-Rebitzer, M. J. Nguemini Tiako, G. Ridgeway, and M. M. Schapira (2022). “[A multicentered randomized controlled trial comparing the effectiveness of pain treatment communication tools in emergency department patients with back pain or kidney stone pain](#),” *American Journal of Public Health* 112(S1):S45-S55.

G. Ridgeway, J. Rosenberger, and L. Xue (2021). “[Statisticians Engage in Gun Violence Research](#),” *Statistics and Public Policy* 8(1):73-79.

Y. Wu and G. Ridgeway (2021). “[Effect of Public Transit on Crime: Evidence from SEPTA strikes in Philadelphia](#),” *Journal of Experimental Criminology* 17:267-286.

G. Ridgeway, B. Cave, J. Grieco, and C.E. Loeffler (2021). “[A Conditional Likelihood Model of the Relationship Between Officer Features and Rounds Discharged in Police Shootings](#),” *Journal of Quantitative Criminology* 37(1):303-326.

R. Moyer and G. Ridgeway (2020). “[The Effect of Outpatient Methadone Maintenance Treatment Facilities on Place-Based Crime](#),” *Journal of Experimental Criminology* 16(2):227–245.

- G. Ridgeway, R. Moyer, and S. Bushway (2020). “[Sentencing Scorecards: Reducing Racial Disparities in Prison Sentences at Their Source](#),” *Criminology & Public Policy* 19(4):1113-1138.
- G. Ridgeway (2020). “[The Role of Individual Officer Characteristics in Police Shootings](#),” *The ANNALS of the American Academy of Political and Social Science* 687(1):58-66. (technical appendix showing the decomposition of information)
- G. Ridgeway, J. Grogger, R.A. Moyer, and J.M. MacDonald (2019). “[Effect of Gang Injunctions on Crime: A Study of Los Angeles from 1988-2014](#),” *Journal of Quantitative Criminology* 35(3):517-541.
- C.E. Loeffler, J.M. Hyatt, and G. Ridgeway (2019). “[Measuring Self-Reported Wrongful Convictions Among Prisoners](#),” *Journal of Quantitative Criminology* 35(2):259-286.
- R. Moyer, J.M. MacDonald, G. Ridgeway, and C. Branas (2019). “[Effect of Remediating Blighted Vacant Land on Shootings: A Citywide Cluster Randomized Trial](#),” *American Journal of Public Health* 109(1):140-144.
- G. Ridgeway, M. Nørgaard, T.B. Rasmussen, W.D. Finkle, L. Pedersen, H.E. Bøtker, and H.T. Sørensen (2019). “[Benchmarking Danish Hospitals on Mortality and Readmission Rates After Cardiovascular Admission](#),” *Clinical Epidemiology* 11:67-80.
- Ridgeway, G. (2019). “[Experiments in Criminology](#),” *Annual Review of Statistics and Its Applications*, 6:37–61.
- O. Mitchell and G. Ridgeway (2018). “[Assessing the Fairness and Effectiveness of Bicycle Stops in Tampa](#),” *Police Quarterly* 21(4):461-485.
- J. Lyons, V. Desai, Y. Xu, G. Ridgeway, W. Finkle, P. Solari, S. Sullivan, S. Lanes (2018). “[Development and Validation of an Algorithm for Identifying Patients with Hemophilia A in an Administrative Claims Database](#),” *Value in Health* 21(9):1098-1103.
- S.F. Jacoby, L.M. Kollar, G. Ridgeway, S.A. Sumner (2018). “[Health System and Law Enforcement Synergies for Injury Surveillance, Control and Prevention: A Scoping Review](#),” *Injury Prevention* 24:305-311.
- V. Bacak and G. Ridgeway (2018). “[Availability of Health-Related Programs in Private and Public Prisons](#),” *Journal of Correctional Health Care* 24(1):62-70.
- S.-L. Faraji, G. Ridgeway, and Y. Wu (2018). “[Effect of Emergency Winter Homeless Shelters on Property Crime](#),” *Journal of Experimental Criminology* 14(2):129-140.
- G. Ridgeway (2018). “[Policing in the Era of Big Data](#),” *Annual Review of Criminology*, 1:401–419.
- R. Umbach, A. Raine, and G. Ridgeway (2017). “[Aggression and Lost Sleep: a Daylight Saving Time Natural Experiment](#),” *Journal of Experimental Criminology* 13(4):439-453.
- G. Ridgeway (2017). “[Stop-and-Frisk is Essential... and Requires Restraint](#),” *Journal of Policy Analysis and Management* 36(3):683–689 (with discussion and rejoinder).
- G. Ridgeway and J.M. MacDonald (2017). “[Effect of Rail Transit on Crime: A Study of Los Angeles from 1988-2014](#),” *Journal of Quantitative Criminology* 33(2):277-291.
- G. Ridgeway and B. Kilmer (2016). “[Bayesian inference for the distribution of grams of marijuana in a joint](#),” *Drug and Alcohol Dependence* 165:175–180.

- G. Ridgeway (2016). “[Officer Risk Factors Associated with Police Shootings: A Matched Case-Control Study](#),” *Statistics and Public Policy* 3(1):1-6.
- G. Ridgeway, S. Kovalchik, B.A. Griffin, and M.U. Kabeto (2015). “[Propensity score analysis with survey weighted data](#),” *Journal of Causal Inference* 3(2):237-249.
- J. Saunders, R. Lundberg, A.A. Braga, G. Ridgeway, and J. Miles (2015). “[A Synthetic Control Approach to Evaluating Placed-Based Crime Interventions](#),” *Journal of Quantitative Criminology* 31(3):413-434.
- W.D. Finkle, S. Greenland, G. Ridgeway, J.L. Adams, M.A. Frasco, M.B. Cook, J.F. Fraumeni, R.N. Hoover (2014). “[Increased Risk of Non-fatal Myocardial Infarction Following Testosterone Therapy Prescription in Men](#),” *PLOS One* 9(1):e85805.
- G. Ridgeway & J.M. MacDonald. “[A Method for Internal Benchmarking of Criminal Justice System Performance](#),” *Crime & Delinquency*, 60(1):145–162.
- A.A. Braga, G.J. Wintemute, G.L. Pierce, P.J. Cook, and G. Ridgeway (2012). “[Interpreting the empirical evidence on illegal gun market dynamics](#),” *Journal of Urban Health* 89(5):779-93.
- D. Golinelli, G. Ridgeway, H. Rhoades, J. Tucker and S. Wenzel (2012). “[Bias and variance trade-offs when combining propensity score weighting and regression: with an application to HIV status and homeless men](#),” *Health Services and Outcomes Research Methodology* 12(2-3):104-118.
- W.D. Finkle, J.S. Der, S. Greenland, J.L. Adams, G. Ridgeway, T. Blaschke, Z. Wang, R.M. Dell, and K.B. VanRiper (2011). “[Risk of Fractures Requiring Hospitalization After an Initial Prescription for Zolpidem, Alprazolam, Lorazepam, or Diazepam in Older Adults](#),” *Journal of the American Geriatrics Society* 59(10):1883-1890.
- G. Ridgeway, A. Braga, G. Tita, and G. Pierce (2011). “[Intervening in gun markets: An experiment to assess the impact of targeted gun law messaging](#),” *Journal of Experimental Criminology* 7(1):103-109.
- J.M. MacDonald, R.J. Stokes, D. Cohen, A. Kofner, and G. Ridgeway (2010). “[The Effect of Light Rail Transit on Body Mass Index and Physical Activity](#),” *American Journal of Preventive Medicine* 39(2):105–112.
- P. Karaca-Mandic and G. Ridgeway (2010). “[Behavioral Impact of Graduated Driver Licensing on Teenage Driving Risk and Exposure](#),” *Journal of Health Economics* 29:48-61.
- G. Ridgeway and J.M. MacDonald (2009). “[Doubly Robust Internal Benchmarking and False Discovery Rates for Detecting Racial Bias in Police Stops](#),” *Journal of the American Statistical Association* 104(486):661–668.
- R. Lin, T.A. Louis, S.M. Paddock, G. Ridgeway (2009). “[Ranking USRDS provider specific SMRs from 1998-2001](#),” *Health Services and Outcomes Research Methodology* 9(1):22-38.
- R.J. Stokes, J.M. MacDonald, and G. Ridgeway (2008). “[Estimating the effects of light rail transit on health care costs](#),” *Health & Place* 14(1):45-58.
- MacDonald, J.M., R.J. Stokes, G. Ridgeway, and K.J. Riley (2007). “[Race, Neighborhood context, and perceptions of injustice by the police](#),” *Urban Studies* 44(13):2567-2585.
- D.F. McCaffrey, A.R. Morral, and G. Ridgeway, B.A. Griffin (2007). “[Interpreting treatment effects when cases are institutionalized after treatment](#),” *Drug and Alcohol Dependence* 89(2-3):126-138.

- G. Tita and G. Ridgeway (2007). “[The impact of gang formation on local patterns and levels of crime](#),” *Journal of Research in Crime and Delinquency* 44(2):208-237.
- R.N. Bluthenthal, G. Ridgeway, T. Schell, R. Anderson, N.M. Flynn, and A.H. Kral (2007). “[Examination of the association between syringe exchange program \(SEP\) dispensation policy and SEP client-level syringe coverage among injection drug users](#),” *Addiction* 102(4):638-646.
- R. Boer, Y. Zheng, A. Overton, G. Ridgeway, D. Cohen (2007). “[Neighborhood Design and Walking Trips in 10 U.S. Metropolitan Areas](#),” *American Journal of Preventive Medicine* 32(4):298-304.
- R. Lin, T.A. Louis, S.M. Paddock, and G. Ridgeway (2006). “[Loss Function Based Ranking in Two-Stage Hierarchical Models](#),” *Bayesian Analysis* 1(4):915-946.
- G. Tita, A. Braga, G. Ridgeway, G. Pierce (2006). “[The criminal purchase of firearm ammunition in Los Angeles, California](#),” *Injury Prevention* 12:308-311.
- J. Grogger and G. Ridgeway (2006). “[Testing for racial profiling in traffic stops from behind a veil of darkness](#),” *Journal of the American Statistical Association* 101(475):878-887. [ASA 2007 Outstanding Statistical Application Award](#)
- S.M. Paddock, G. Ridgeway, R. Lin, T.A. Louis (2006). “[Flexible distributions for triple-goal estimates in two-stage hierarchical models](#),” *Computational Statistics and Data Analysis* 50(11):3243-3262.
- G. Ridgeway (2006). “[Assessing the effect of race bias in post-traffic stop outcomes using propensity scores](#),” *Journal of Quantitative Criminology* 22(1):1-29. Example [code](#) and [dataset](#).
- D.A. Cohen, T.A. Farley, K. Mason, G. Ridgeway (2006). “[The collectivity of sexual behaviour](#),” *International Journal of STD & AIDS* 17(3):151-156.
- C. Guarino, G. Ridgeway, M. Chun, and R. Buddin (2005). “[Latent Variable Analysis: A New Approach to University Ranking](#),” *Higher Education in Europe* 30(2):147-165.
- D. McCaffrey, G. Ridgeway, A. Morral (2004). “[Propensity score estimation with boosted regression for evaluating adolescent substance abuse treatment](#),” *Psychological Methods* 9(4):403-425. [Included in J. Miles and B. Stucky (editors) (2014). *Quantitative Psychology*, SAGE Publications.]
- A.R. Morral, D.F. McCaffrey, G. Ridgeway (2004). “[Effectiveness of community-based treatment for substance abusing adolescents: 12-month outcomes from a case-control evaluation of a Phoenix Academy](#),” *Psychology of Addictive Behaviors* 18(3):257-268.
- G. Ridgeway and D. Madigan (2003). “[A sequential Monte Carlo method for Bayesian analysis of massive datasets](#),” *Data Mining and Knowledge Discovery* 7(3):301-319.
- D. Relles, G. Ridgeway, and G. Carter (2003). “[Data mining and the implementation of a prospective payment system for inpatient rehabilitation](#),” *Health Services and Outcomes Research Methodology* 3:247-266.
- G.M. Carter, D.A. Relles, G. Ridgeway, C.M. Rimes (2003). “[Measuring function for Medicare inpatient rehabilitation payment](#),” *Health Care Financing Review* 24(3):25-44.
- G. Ridgeway and D. Madigan (2002). “[Bayesian analysis of massive datasets via particle filters](#),” *Proceedings of the Eighth ACM SIGKDD International Conference on Knowledge Discovery and Data Mining*, 5-13.

D. Madigan, N. Raghavan, W. DuMouchel, M. Nason, C. Posse, and G. Ridgeway (2002). “[Instance construction via likelihood-based data squashing](#),” *Data Mining and Knowledge Discovery* 6(2):173-190.

G. Ridgeway (2002). “[Looking for Lumps: Boosting and bagging for density estimation](#),” *Computational Statistics and Data Analysis* 38(4):379-392. ([R script](#))

G. Ridgeway, D. Madigan, T. Richardson, and J. O’Kane (1998). “[Interpretable boosted naïve Bayes classification](#),” *Proceedings, Fourth International Conference on Knowledge Discovery and Data Mining* (R. Agrawal, P. Stolorz, G. Piatetsky-Shapiro, eds.), 101-104.

Software development

- **fastDR — Fast Doubly Robust Estimation**

Implements doubly robust treatment effect estimation using boosted propensity scores and weighted GLMs.

Development: <https://github.com/gregridgeway/fastDR>

- **gbm — Generalized Boosted Regression Models**

Gradient boosting and related models (C++ engine, R frontend).

Development: <https://github.com/gbm-developers/gbm>

Presentations

(This section is long on the original page; paste in additional items as needed. A few examples follow.)

- 2020 — “Modern Benchmarking and the Search for Unusual Hospitals, Communities, and Cops,” Keynote, Health Policy Statistics Section, Joint Statistical Meetings (virtual).
- 2019 — “Officer Features and Shooting Risk,” Inaugural Ingram Olkin S3 Forum, American Statistical Association, Alexandria, VA.
- 2018 — “Criminological Data Science,” Fields Institute, University of Toronto, Toronto, Canada.

Professional activities

- 2021–2025 — Editor-in-chief, *Journal of Quantitative Criminology* (with John MacDonald)
- 2025–2028 — Committee member, ASA Committee on Law and Justice Statistics
- 2023–2024 — Chair, ASA Committee on Law and Justice Statistics
- 2021–2024 — Committee member, Policy Committee, American Society of Criminology
- 2018–2020 — Associate Editor, *Journal of Quantitative Criminology*
- 2016–2018 — Editorial board, *Journal of Quantitative Criminology*
- 2019–2020 — Committee member, Nominations Committee, American Society of Criminology
- 2009–2010 — Committee member, ASA Committee on Law and Justice Statistics
- 2004–2008 — Associate Editor, *Bayesian Analysis*

Teaching experience and student advising

Course notes

- **Criminal Justice Data Analytics** (CRIM4002/6002) [R4Crim](#)
- **Machine Learning for Social Science** (CRIM4012/6012) [ML4SocialScience](#)

Ph.D. students (committee roles)

- 2024 — John Gyourko, *Credit Checks and Credit Freezes for Children and Youth in Foster Care...* (committee member)
- 2023 — Alex Knorre, *Essays on Gun Violence in the United States* (committee member)
- 2023 — David Mitre Becerril, *The Effects of Neighborhood Investments on Public Safety* (committee member)
- 2022 — Viet Nguyen, *Understanding the trade-offs for less punitive sentencing practices* (committee member)
- 2020 — Ruth Moyer, *Changes Within the Urban Environment and Their Effect on Crime...* (committee chair)
- 2020 — Jacob Kaplan, *The Effect of Lighting and Building Security on Crime* (committee member)
- 2020 — Yuhao Wu, *Empirical Studies of the Effects of Legal Reforms... in China* (committee member)