

CURRICULUM VITAE

JASON ROY

CONTACT INFORMATION

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CURRENT ACADEMIC POSITIONS

2018-	Professor (with tenure) & Chair	Department of Biostatistics & Epidemiology Rutgers University
2018-	Director	Rutgers Biostatistics and Epidemiology Services Center (RUBIES)
2018-	Director	Biostatistics Concentration, Rutgers SPH
2019-	Co-Director	Biostatistics, Epidemiology, and Research Design (BERD), NJ CTSA Core
2018-	Adjunct Professor	Department of Biostatistics, Epidemiology, and Informatics University of Pennsylvania
2016-	Co-Director	Center for Causal Inference University of Pennsylvania / Rutgers University

PAST ACADEMIC POSITIONS

2013-2018	Associate Professor	Department of Biostatistics, Epidemiology, and Informatics University of Pennsylvania
2016-2018	Associate Program Chair	Biostatistics Program, Graduate Group in Epidemiology and Biostatistics University of Pennsylvania

2009-2018	Senior Scholar	Center for Clinical Epidemiology and Biostatistics (CCEB) University of Pennsylvania
2000-2003	Assistant Professor	Center for Statistical Sciences Brown University

OTHER EMPLOYMENT / POSITIONS

2009-2012	Adjunct Investigator	Geisinger Center for Health Research
2007-2009	Research Investigator	Geisinger Center for Health Research

EDUCATION

2000	Ph.D.	Biostatistics Advisor: Xihong Lin University of Michigan, Ann Arbor, MI
1997	M.S.	Biostatistics University of Michigan, Ann Arbor, MI
1995	B.S.	Actuarial Science and Economics Eastern Michigan University, Ypsilanti, MI

AWARDS AND HONORS

2019	Fellow, American Statistical Association
2019	New Jersey Health Foundation Excellence in Research Award
2011	Graduate Program in Biostatistics Teaching Award, Department of Biostatistics and Epidemiology, University of Pennsylvania Perelman School of Medicine
2002	David P. Byar Young Investigator Award, ASA Biometrics Section
2000	Student Travel Award, ENAR Spring Meeting
1999-2000	Fellowship Award, NIH Training Grant, University of Michigan, Institute for Social Research

PROFESSIONAL ACTIVITY

Editorial Boards:

Associate Editor, *Biometrical Journal*, 2004-2014

Associate Editor, *Journal of the Royal Statistical Society, Series C*, 2016-2018

Associate Editor, *Journal of the American Statistical Association*, 2015-2018

Associate Editor, *Pharmacoepidemiology and Drug Safety*, 2011-

Associate Editor, *Observational Studies*, 2014-

Associate Editor, *Biometrics*, 2015-

Associate Editor, *Statistical Science*, 2018-

Associate Editor, *Statistics in Medicine*, 2020-

Study Section and Grant Review Panel:

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|------|---|
| 2002 | Health Care Technology and Decision Sciences (HCTDS) Study Section, AHRQ (Temporary Reviewer) |
| 2002 | Methodology, Measurement and Statistics section, National Science Foundation (Reviewer) |
| 2004 | NIH Special Emphasis Panel ZRG1HOP-D(50R), "Supplements for Methodological Innovations in the Behavioral and Social Sciences" (Member) |
| 2005 | NIH Special Emphasis Panel ZA11GSM-M(M1), "International Collaborations in Infectious Disease Research" (Member) |
| 2006 | NIH Special Emphasis Panel ZA11GSMMJ1, "Tropical Medicine Research Centers" (Member) |
| 2007 | NIH Special Emphasis Panel ZDE1-RW-03 (Member) |
| 2009 | Methodology, Measurement, and Statistics section. National Science Foundation (Reviewer) |
| 2009 | NIH Special Emphasis Panel ZDE1 MH (25). National Institute of Dental and Craniofacial Research: "Small Research Grants for Data Analysis and Statistical Methodology" (Reviewer) |
| 2009 | NIH Special Emphasis Panel ZRG1 ETTN-A (58). Challenge grant review. (Reviewer) |
| 2009 | Special Emphasis Panel ZDE1 VH (07). National Institute of Dental and Craniofacial Research (Reviewer) |
| 2010 | Special Emphasis Panel ZDE1 LK (25). National Institute of Dental and Craniofacial Research (Reviewer) |
| 2011 | Special Emphasis Panel ZDE1 VH (13). National Institute of Dental and Craniofacial Research (Reviewer) |

- 2014 Special Emphasis Panel ZDE1 JR 23, National Institute of Dental and Craniofacial Research. (Reviewer)
- 2015 NIH, Community Influences on Health Behavior (CIHB) Study Section (Reviewer)
- 2015 NIH, Special Emphasis Panel, ZRG1 PSE-B (57) and ZRG1 PSE-U (07) (Member)
- 2017 NIH, Special Emphasis Panel, NIDCR Secondary Data Analysis, ZDE1 GZ (04) 1 (Reviewer)
- 2017 National Science Foundation, Statistics B Review Panel (Member)
- 2017 PCORI, Cycle 3 2016 Merit Review, Assessment of Prevention, Diagnosis and Treatment Options (Methodology expert reviewer)
- 2019 NIH, Special Emphasis Panel, NIDCR Secondary Data Analysis, ZDE1 GZ 13 (Reviewer)
- 2019 NIH, Special Emphasis Panel, 2019/10 ZNS1 SRB-G (Reviewer)
- 2020 NIH, Special Emphasis Panel, 2020/05 ZNS1 SRB-G (29) (Reviewer)
- 2020 NIH, Special Emphasis Panel, 2020/10 ZNS1 SRB-G (30) (Reviewer)

Federal Advisory Committee:

- 2011 NSF-Census Research Network advisory panel (Member)
- 2012 Patient Centered Outcomes Research Institute (PCORI), Committee to establish standards in the prevention and handling of missing data in observational and experimental patient centered outcomes research (Ad-hoc member)
- 2014 PCORI, Methodology Consultation Review Panel (Member)
- 2015 NSF-Census Research Network (Member of Site Visit Team)
- 2015 PCORI, Advisory Panel on Clinical Trials (CTAP) Post-Award Expert Advisory Subcommittee (Member)

PROFESSIONAL MEMBERSHIP

American Statistical Association (ASA) (Member of Sections: Biometrics; Biopharmaceutical; Health Policy Statistics; Bayesian Statistical Science; Statistics in Epidemiology)

International Biometric Society (ENAR)

RESEARCH FUNDING

Current Funding:

5UL1TR003017-02 (Panettieri, R.) 03/11/19 - 02/29/24
The New Jersey Alliance for Clinical and Translational Science (NJ ACTS)
Role: Co-Investigator

R01-CA206465 (Justice, A. and Lo Re, V.) 07/01/16 - 05/31/21
HIV and Aging Mechanisms for Hepatocellular Cancer
Role: Co-Investigator (PI of subcontract)

U01AI122285-05S1 (Blazer, M.) 05/01/20-04/30/21
NIAID Extension of Investigator-Initiated Clinical Trials-COVID SUPPLEMENT
Role: Co-Investigator

Past Funding:

1R01-GM-112327 (PI Roy): *Non-Parametric Bayesian Methods for Causal Inference*, NIGMS, \$272,575 (annual), 09/10/2014 - 06/30/2019, Role: PI.

U01-DK060990 (PI Feldman): *Continuation of the Chronic Renal Insufficiency Cohort (CRIC) Study (Phase III)*, NIDDK, \$1,634,607 (annual), 05/2016 - 04/2018, Role: Co-Investigator.

P30-ES013508 (PI Penning): *Center of Excellence in Environmental Toxicology*, NIH, \$1,000,000, 04/2015 – 06/2018, Role: Co-Investigator.

1R01-DK104730 (PI Anderson): *Measures of Fibrosis and Clinical Outcomes in Chronic Kidney Disease*, \$597,490 (annual), 04/2015 - 06/2018, Role: Co-Investigator.

5R21-AI124868-02 (PI Lo Re III): *Risk of Liver Complications with Hepatitis B Viremia During Tenofovir-Based ART*, \$209,206, 02/2016 - 01/2018, Role: Co-Investigator.

R18-HL116285 (PI Apter): *A Patient Advocate to Improve Real-World Asthma Management for Inner City Adults*, NIH, 06/2016 - 05/2017, Role: Co-Investigator.

FDA / Harvard Pilgrim Health Care Institute (PI Raebel), *Analytic Methods for Using Laboratory Test Results in Active Database Surveillance*, 02/2014 - 11/2015, Role: Lead Biostatistician / PI of subcontract.

PCORI (PI Lewis): *Patient Valued Comparative Effectiveness of Corticosteroids Versus Anti-TNF Alpha Therapy for Inflammatory Bowel Disease*, 09/2013 - 12/2016, Role: Co-Investigator.

5R01-HL116832 (PI Stewart), *Early Detection of Heart Failure via The Electronic Health Record in Primary Care*, 12/2012 - 03/2016, Role: Co-Investigator / PI of subcontract.

R01-DK090385 (PI Joffe): *Selective & Future Ignorability in Casual Inference*, NIH, 08/2012 - 07/2015, Role: Co-Investigator.

R01-HS018589: *Comparative Effectiveness Of Ace Inhibitors For African Americans*, 01/2012 - 07/2012, Role: PI of subcontract.

R01-HS018372 (PI: Lo Re III): *Clinical Prediction of Hepatotoxicity & Comparative Hepatic Safety Of Medications*, 09/2010 - 07/2015, Role: Co-Investigator.

U01-DK060990 (PI Feldman): *Continuation of the Chronic Renal Insufficiency Cohort (Phase II)*, NIDDK, 05/2010 - 04/2014, Role: Co-Investigator.

RC1-AA019186 (PI Hogan): *New Approaches to Mediation Analysis Using Causal Inference Methods*, 09/2009 - 08/2011, Role: Co-Investigator / PI of subcontract.

AHRQ Task Order 3 (PI Shah): *Bridging Knowledge Gaps in the Comparative Effectiveness of ACE Inhibitors & ARBs*, 09/2008 - 03/2010, Role: PI of subcontract.

R01-CE001615 (PI Carr): *Optimizing Trauma Systems Planning Using Interactive Web-Based Mapping Tools*, 07/2009 - 06/2013, Role: Co-Investigator.

R01-DK082551 (PI Stewart): *Natural History of Stress, Urge and Mixed Urinary Incontinence in Women*, 07/2009-06/2012, Role: Co-Investigator.

R01-HL098332 (PI Lande): *Neurocognitive Function in Children with Hypertension*, 12/2004-02/2007, Role: Co-Investigator.

CDC (PI Szilagyi): *Rochester Center for Adolescent Immunization Research*, 09/2004-02/2007, Role: Co-Investigator.

R01-HL-79457 (PI Hogan): *Analyzing Complex Longitudinal Data in Behavior Sciences*, 08/2004-07/2007, Role: Co-Investigator / PI of subcontract.

NIH/NIDCR 5P01DE013539 (PI Melvin): *Molecular Basis of Idiopathic Dry Mouth*, 08/2004-03/2005, Role: Co-Investigator.

R01-AI-50505 (PI Hogan): *Analyzing Multiple Process Data in Studies of HIV/AIDS*, 09/2001-06/2004, Role: Co-Investigator.

DHHS (PI Mor), *Nursing Home Care at the End-of-Life: Cost & Quality*, 09/2000-09/2002, Role: Co-Investigator.

LECTURES BY INVITATION (Last 10 Years)

- June, 2010 "Sensitivity analysis for comparative effectiveness research using electronic health records data," WNAR, Seattle, WA.
- June, 2010 "Statistical methods for estimating age-specific incidence and remission rates from cross-sectional survey data," Division of Biostatistics and Epidemiology, Weill Cornell Medical College, New York, NY.
- August, 2010 "Methodological controversies from comparative effectiveness (CE) studies using claims vs. electronic health record (EHR) data," International Conference Pharmacoeconomics & Therapeutic Risk Management. Brighton, England.
- May, 2011 "Hierarchical models for causal comparisons of drug effectiveness from administrative data with partially missing confounding variables," Causal Inference in Health Research conference, Montreal, Canada.
- June, 2011 "Missing data: definitions, methods and caveats," AHRQ DEcIDE Method's webinar.
- August, 2011 "Hierarchical models for causal comparisons of drug effectiveness from healthcare data with partially missing confounding variables," International Society of Clinical Biostatistics, Ottawa, Canada.
- Mar, 2012 "Hierarchical models for causal comparisons of drug effectiveness from administrative data with partially missing confounding variables," Division of Biostatistics, New York University, New York, NY.
- Jun, 2012 "Bias in case-crossover studies due to accumulation / disequilibrium of therapies for chronic diseases", DEcIDE Methods Symposium, Agency for Healthcare Research and Quality, Gaithersburg, MD.
- Mar, 2015 "Statistical methods for dealing with non-random observation of laboratory data in EHRs", ENAR, Miami, FL.
- May, 2015 "Bayesian Nonparametric Causal Models for Point Treatments," Atlantic Causal Conference, Philadelphia, PA.

- Jun, 2015 "A Bayesian nonparametric approach to marginal structural models for point treatments and a continuous outcome." ASA Princeton-Trenton Chapter Spring Symposium, Real World Evidence: Opportunities, Challenges and Approaches, Rutgers University, NJ.
- Aug, 2015 "Analytic methods for using laboratory test results in database surveillance," International Conference on Pharmacoepidemiology & Therapeutic Risk Management (ICPE), Boston, MA.
- Sep, 2015 "Statistical challenges with using large healthcare databases for postmarketing safety studies," UMBC-Stanford Workshop on Clinical Trials and Regulatory Science, University of Maryland, Baltimore, MD.
- Feb, 2016 "A Bayesian nonparametric approach to marginal structural models for point treatments and a continuous outcome," University of Texas, Austin, TX.
- Mar, 2016 "A Bayesian nonparametric approach to marginal structural models for point treatments and a continuous outcome," ENAR, Austin, TX.
- Jun, 2016 "A Bayesian nonparametric model for estimating causal drug effects from electronic medical records with informative missing data," International Society for Bayesian Analysis (ISBA) World Meeting, Sardinia, Italy.
- Jul, 2016 "A new approach to causal inference using Bayesian nonparametric methods," International Biometric Conference (IBC), Victoria, BC Canada.
- Sep, 2016 "Bayesian nonparametric methods for causal inference with missing at random confounders," Johns Hopkins University, Baltimore, MD.
- Sep, 2016 "Flexible Bayesian methods for causal inference and missing data in pharmacoepidemiology," Department of Quantitative Health Sciences, University of Massachusetts Medical School, Worcester, MA.
- Dec, 2016 "Bayesian nonparametric methods for causal inference with missing at random confounders," International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2016), Seville, Spain.
- Feb, 2017 "An introduction to Bayesian nonparametric methods for causal inference in pharmacoepidemiology," Biopharmaceutical Section of the American Statistical Association, web-based lecture.
- Feb, 2017 "Confounding," FDA certificate program, Washington DC.
- Jun, 2017 "Bayesian nonparametric methods for causal inference," The 1st International Conference on Econometrics and Statistics (EcoSta 2017), Hong Kong.

- Aug, 2017 "Using multiple source data from electronic medical records to recover longitudinal outcomes - a Bayesian nonparametric approach," CEN-ISBS Joint Conference on Biometrics & Biopharmaceutical Statistics, Vienna, Austria.
- Nov, 2017 "A Bayesian nonparametric modeling approach to the identification of outcomes derived from EHR laboratory data", University of Florida, Department of Statistics, Gainesville, FL.
- Dec, 2017 "A Bayesian nonparametric modeling approach to the identification of outcomes derived from EHR laboratory data," CMStatistics, London.
- Apr, 2018 "Bayesian nonparametric methods for causal inference and prediction," University of Miami, Miami, FL.
- Aug, 2018 "Causal inference using a Bayesian nonparametric model with informative priors on sensitivity parameters," Joint Statistical Meetings, Vancouver, Canada.
- Sept, 2018 "Subject-specific functional prediction from electronic health records using an enriched Dirichlet process mixture model," Department of Statistics, Rutgers University.
- Sept, 2018 "Subject-specific functional prediction from electronic health records using an enriched Dirichlet process mixture model," Department of Biostatistics, University of Michigan.
- Dec, 2018 "Subject-specific functional prediction from electronic health records using an enriched Dirichlet process mixture model," CMStatistics, Pisa, Italy.
- Jan, 2019 "Subject-specific functional prediction from electronic health records using an enriched Dirichlet process mixture model," Department of Epidemiology and Biostatistics, Memorial Sloan-Kettering Cancer Center, New York.
- Jan, 2019 ICERM TRIPODS workshop on "Models and Machine Learning for Causal Inference and Decision Making in Health Research," Brown University, Providence, RI.
- Mar, 2019 "Bayesian nonparametric models with faster algorithms for estimating causal effects," ENAR, Philadelphia, PA.
- June, 2019 "Flexible models for time-dependent causal mediation," Economics and Statistics Conference, Taipei, Taiwan.
- June, 2019 Bayesian Causal Inference Workshop, Ohio State University, Columbus, OH.
- July, 2019 Discussant, "Using large healthcare databases and modern statistical methods to impact health policy," Joint Statistical Meetings, Denver, CO.

- Aug, 2019 Workshop, “Machine Learning To Improve Causal Inference In Pharmacoepidemiology,” International Conference on Pharmacoepidemiology and Therapeutic Risk Management (ICPE), Philadelphia, PA.
- Sept, 2019 “Functional clustering methods for extracting features from EHR biomarker history data,” Department of Biostatistics and Medical Informatics, University of Wisconsin.
- Dec, 2019 Tutorial on instrumental variables, Deming Conference, Atlantic City, NJ.
- Dec, 2019 “Functional clustering methods for extracting features from EHR biomarker history data,” ICSA International Conference, Hangzhou, China.
- Feb, 2020 “Machine learning to improve causal inference in pharmacoepidemiology,” ISPE McGill Student Chapter, Montreal Canada.
- Mar, 2020 “Bayesian nonparametric models to address positivity assumption violations in causal inference,” ENAR (virtual).
- Aug, 2020 “Joint Bayesian nonparametric models for survival times and medical costs,” Joint Statistical Meetings (virtual).
- Aug, 2020 “Machine learning in pharmacoepidemiology,” Mini-Symposium, International Society for Clinical Biostatistics (virtual).

ORGANIZING ROLES IN SCIENTIFIC MEETINGS

- 2006 Organizer, Invited Session, 2006 Joint Statistical Meeting, Seattle, WA.
- 2007 Organizer, Invited Session, 2007 Joint Statistical Meeting, Salt Lake City, UT.
- 2010 Organizer, Invited Session, Atlantic Causal Inference Conference, New York University, NY.
- 2011 Organizer, Invited Session, Joint Statistical Meetings, Miami, FL.
- 2014 Organizer of an Invited Session, International Biometric Conference, Florence, Italy.
- 2016 Organizer of invited session, Conference on Computational and Methodological Statistics (CMStatistics 2016), Seville, Spain.

- 2016 Organizer of an invited session, International Biometric Conference, Victoria, BC Canada.
- 2017 Organizer of an invited session, CMStatistics, London, UK.
- 2018 Co-organizer of an invited session, ENAR, Atlanta, GA.

ONLINE COURSES

- 2017- Creator and Instructor of *A Crash Course in Causality*, Coursera, (4.7/5.0 rating; over 17,000 enrolled) <https://www.coursera.org/learn/crash-course-in-causality/>

SHORT COURSES

- 2017, 2018 Organizer of, and instructor at, *Causal Inference & Big Data Summer Institute*
- 2018 Instructor (with Michael Daniels) of full day short course on Bayesian nonparametric methods, Joint Statistical Meetings, Vancouver, BC.
- 2019 Workshop on Causal Inference. Chicago Section of the American Statistical Association, Chicago, IL.
- 2019 Co-organizer and instructor for Causal Inference Summer Institute, New Brunswick, NJ.
- 2020 Instructor, Virtual Causal Inference Workshop, Center for Causal Inference.

SERVICE AND COMMITTEE WORK FOR THE PROFESSION

- 2011 Member, Scientific Planning Committee for the AHRQ Methods Symposium, Philadelphia.
- 2013 ENAR Program Committee, At-Large Member, Orlando, FL.
- 2014 Biometrics Section Representative to 2014 ENAR Program, Committee, Baltimore, MD.
- 2019 Member, External Review Committee for the Program Alignment Review (PAR) for the Department of Epidemiology and Biostatistics at Drexel University
- 2020 Member of Educational Advisory Committee, ENAR, Nashville, TN.
- 2020 Biostatistics Representative for the ASA Caucus for Academic Representatives
- 2021 Chair-Elect, Council of Sections Governing Board, American Statistical

Association

SERVICE AND COMMITTEE WORK AT HOME INSTITUTION

Brown University (2000-2002):

- 2001-2002 Seminar Organizer, Center for Statistical Sciences, Brown University, Providence, RI.
- 2001-2002 Member, Postdoctoral Search Committee, Center for Gerontology and Health Care Research, Brown University, Providence, RI.

University of Rochester (2003-2007):

- 2004-2007 Director of Master of Science Program in Medical Statistics, Department of Biostatistics and Computational Biology, University of Rochester, Rochester, NY.
- 2004-2007 Member, Pediatrics Scientific Review Committee, Department of Pediatrics, as hoc reviewer, University of Rochester, Rochester, NY.
- 2004-2007 Co-organizer, Pediatric Clinical Research Working Group, Department of Pediatrics, University of Rochester, Rochester, NY.
- 2005-2007 Member, Curriculum Committee, Department of Biostatistics and Computational Biology, University of Rochester, Rochester, NY.
- 2006 Chair of Advanced (open book) Examination, Department of Biostatistics and Computational Biology, University of Rochester, Rochester, NY.

University of Pennsylvania (2009-):

- 2010-2015 Member, Graduate Program Admissions Committee, Division of Biostatistics, University of Pennsylvania.
- 2010-2018 Awards Committee, Department of Biostatistics, Epidemiology, and Informatics, University of Pennsylvania.
- 2010-2013 Member, Junior Faculty Committee, Division of Biostatistics, University of Pennsylvania Perelman School of Medicine.
- 2011-2015 Member, Qualifying Exam Committee, Division of Biostatistics, University of Pennsylvania.
- 2015-2018 At-Large Member of Executive Committee, Graduate Group in Epidemiology and Biostatistics, University of Pennsylvania.

- 2015-2017 Co-Chair, Examinations Committee, Graduate Group in Epidemiology and Biostatistics, University of Pennsylvania.
- 2015-2018 Member of Committee on Appointments and Promotions (COAP), Department of Biostatistics, Epidemiology, and Informatics, University of Pennsylvania.
- 2015-2016 Co-Chair, Curriculum Committee, Division of Biostatistics, University of Pennsylvania.
- 2015-2018 Member, Academic Advising Committee, Graduate Group in Epidemiology and Biostatistics, University of Pennsylvania.
- 2016-2017 Member, Curriculum Committee, Division of Biostatistics, University of Pennsylvania.
- 2016-2018 Member, Faculty Recruitment Committee, Division of Biostatistics, University of Pennsylvania.
- 2017-2018 Chair, Curriculum Committee, Graduate Group in Epidemiology and Biostatistics, University of Pennsylvania.

Rutgers University (2018-):

- 2018- Member, Executive Committee, Rutgers School of Public Health.
- 2020- Member, Research and Doctoral Committee
- 2020- Member, Team Science Advisory Board, New Jersey Alliance for Clinical and Translational Science (NJ ACTS)

TEACHING EXPERIENCE

- 2001 Instructor, BC216: Applied Regression Analysis, Brown University
- 2002 Instructor, BC216: Applied Regression Analysis, Brown University.
- 2002 Instructor, BC296: Special Topics: Regression for Multivariate Data, Brown University.
- 2003 Instructor, BC216: Applied Regression Analysis, Brown University.
- 2003 Instructor, BST463: Introduction to Biostatistics, University of Rochester.
- 2004 Instructor, BST463: Introduction to Biostatistics, University of Rochester.

- 2006 Instructor, BST512: Topics in Statistical Inference: Causal Inference, University of Rochester.
- 2006 Instructor, BST464: Applied Linear Regression, University of Rochester.
- 2011 Instructor, BSTA 771, Applied Bayesian Statistical Analysis (4 students), University of Pennsylvania.
- 2012 Instructor, BSTA 621, Inference I (8 students), University of Pennsylvania.
- 2013 Instructor, EPID 802/803, Fundamentals of Biostatistics in Practice (36 students), University of Pennsylvania.
- 2014 Instructor, BSTA 771, Applied Bayesian Statistical Analysis (14 students) , University of Pennsylvania.
- 2015 Instructor, BSTA 621, Inference I (6 students) , University of Pennsylvania.
- 2016 Instructor, BSTA 771 Applied Bayesian Analysis (8 students), University of Pennsylvania.
- 2017 Instructor, BSTA 790, Causal Inference in Biomedical Research (22 students), University of Pennsylvania.
- 2019 Instructor, BIST 0626, Applied Survival Data Analysis (21 students), Rutgers University.
- 2019 Instructor, BIST 0551, Applied Regression Analysis, Rutgers University

DISSERTATION COMMITTEES

Brown University (2000-2002):

- 2002 Stephanie Lemon, Epidemiology.
- 2004 Ning Wu, Epidemiology.

University of Rochester (2003-2007):

- 2004 In Huh, Economics.
- 2006 Joo-Yeon Lee, Biostatistics, Brown University (Outside Reader).
- 2007 Karen Schneider, Epidemiology, Brown University (Outside Reader).
- 2007 Hua He, Biostatistics.
- 2009 Abbie Stokes-Riner, Biostatistics.

University of Pennsylvania (2009-):

2009-2010 Chris Rowan, Epidemiology.
 2011 Sandra Griffith, Biostatistics (Committee Chair).
 2017- Jiarui Lu, Biostatistics.
 2018- Bikram Karmakar, Statistics.

DOCTORAL STUDENTS

2011-2013 Lola Luo, Biostatistics, University of Pennsylvania (Co-advisor).
 2014-2017 Erica Billig, Biostatistics, University of Pennsylvania (Co-advisor).
 2015-2017 Bret Zeldow, Biostatistics, University of Pennsylvania.
 2017- Arman Oganisian, Biostatistics, University of Pennsylvania (Co-advisor).
 2018- Yaqian (Angela) Zhou, Biostatistics, University of Pennsylvania (Co-advisor).
 2019- Wenxuan Xiong, Rutgers University.

POSTDOCTORAL FELLOWS SUPERVISED

2015-2017 Kirsten Lum, Division of Biostatistics, University of Pennsylvania.
 2016-2018 Andrew Spieker, Center for Causal Inference, University of Pennsylvania.
 2018-2020 Yaoyun (Vincent) Tan, Department of Biostatistics and Epidemiology, Rutgers University.

MASTERS STUDENT ADVISEES

University of Rochester (2003-2007):

Masters of Science (MS) in Biostatistics: Michael Passarelli (2005), Jacqueline Campbell (2006), Eva Culakova (2006)

University of Pennsylvania (2009-):

Master of Science in Clinical Epidemiology (MSCE): Keri Donaldson (2011-), Mike Mullen (2011-2013), Hillary Hernandez-Trujillo (2011-2015), Matthew Denker (2011-), Emily Stanton (2012-), Delaram Safarpour (2014-), Jenna Streicher (2017-), Nadim Mahmud (2017-), Joanna Rhodes (2017-)

Masters of Science in Health Policy (MSHP): Josh Hilton (2011)

Masters of Science in Biostatistics: Bret Zeldow (2015), Thomas Jemielita (2015)

BOOKS

Daniels, M., **Roy, J.** and Linero, A. Bayesian Nonparametric Methods for Causal Inference and Missing Data. Chapman & Hall. Forthcoming

PUBLICATIONS (Peer Reviewed)

1. **Roy J**, Lin X: Latent variable models for longitudinal data with multiple continuous outcomes. Biometrics 56(4): 1047-54, 2000.
2. **Roy J**, Lin X: Analysis of multivariate longitudinal outcomes with nonignorable dropouts and missing covariates: changes in methadone treatment practices. Journal of the American Statistical Association 97(457): 40-52, 2002.
3. Teno JM, Mor V, DeDilva D, Kabumoto G, **Roy J**, Wetle T: Use of feeding tubes in nursing home residents with severe cognitive impairment. Journal of the American Medical Association 287(24): 3211-2, 2002.
4. Lemak C, Alexander J, **Roy J**: Why do drug treatment organizations use contingent staffing arrangements? An analysis of market and social influences. Journal of Health and Science Behavior 44(2): 180-97, 2003.
5. Lemon SC, **Roy J**, Clark MA, Friedman PD, Rakowski W: Classification and regression tree analysis in public health: methodological review and comparison with logistic regression. Annals of Behavioral Medicine 26(3): 172-81, 2003.
6. Mitchell SL, Teno JM, **Roy J**, Kabumoto G, Mor V: Clinical and organizational factors associated with feeding tube use among nursing home residents with advanced cognitive impairment. Journal of the American Medical Association 290(1): 73-80, 2003.
7. Mor V, Angelelli J, Jones R, **Roy J**, Moore T, Morris J: Inter-rater reliability of nursing home quality indicators in the US. BMC Health Services Research 3(1): 20, 2003.
8. **Roy J**, Lin X, Ryan L: Scaled marginal model for multiple continuous outcomes. Biostatistics 4(3): 371-83, 2003.
9. **Roy J**: Modeling longitudinal data with nonignorable dropouts using a latent dropout class model. Biometrics 59(4): 829-36, 2003.
10. Hogan JW, **Roy J**, Korkontzelou C: Handling dropout in longitudinal studies. Statistics in Medicine 23(9): 1455-97, 2004.
11. Lemon SC, Rakowski W, Clark MA, **Roy J**, Friedman P.: Variations in influenza vaccination among the elderly. American Journal of Health Behavior 28(4): 352-60, 2004.
12. Miller SC, Intrator O, Gozalo P, **Roy J**, Barber J, Mor V: Government expenditures at the end of life for short- and long-stay nursing home residents: differences by hospice enrollment status. Journal of the American Geriatrics Society 52(8): 1284-92, 2004.
13. Teno JM, Kabumoto G, Wetle T, **Roy J**, Mor V: Daily pain that was excruciating at some time in the previous week: prevalence, characteristics, and outcomes in nursing home residents.

- Journal of the American Geriatrics Society 52(5): 762-7, 2004.
14. McConnochie KM, Wood NE, Kitzman HJ, Herendeen NE, **Roy J**, Roghmann KJ: Telemedicine reduces absence due to illness in urban child care: evaluation of an innovation. Pediatrics 115(5): 1273-82, 2005.
 15. **Roy J**, Lin X.: Missing covariates in longitudinal data with informative dropouts: bias analysis and inference. Biometrics 61(3): 837-46, 2005.
 16. **Roy J**, Mor V.: The effect of provider-level ascertainment bias on profiling nursing homes. Statistics in Medicine 24(23): 3609-29, 2005.
 17. Teno JM, Mor V, Ward N, **Roy J**, Clarridge B, Wennberg JE, Fisher ES.: Bereaved family member perceptions of quality of end-of-life care in US regions with high and low utilization of intensive care unit care. Journal of the American Geriatrics Society 53(11): 1905-11, 2005.
 18. Wu N, Miller SC, Lapane K, **Roy J**, Mor V: Impact of cognitive function on assessments of nursing home resident's pain. Medical Care 43(9): 934-9, 2005.
 19. Wu N, Miller SC, Lapane K, **Roy J**, Mor V: The quality of the quality indicator of pain derived from the Minimum Data Set (MDS). Health Services Research 40(4): 1197-216, 2005.
 20. Allen S, Resnik L, **Roy J**: Promoting independence for wheelchair users: the role of home accommodations. The Gerontologist 46(1): 115-23, 2006.
 21. Camenga DR, Klein JD, **Roy J**: The changing profile of the American adolescent smoker: implications for prevention programs and tobacco interventions. Journal of Adolescent health 39(1): 120.e1-10, 2006.
 22. Lande MB, Carson NL, **Roy J**, Meagher C: Effects of childhood primary hypertension on carotid intima media thickness: a matched controlled study. Hypertension 48(1): 40-4, 2006.
 23. **Roy J**, Alderson D, Hogan JW, Tashima KT: Conditional inference methods for incomplete Poisson data with endogenous time-varying covariates: emergency department use among HIV-infected women. Journal of the American Statistical Association 101(474): 424-34, 2006.
 24. Szilagyi PG, Griffin MR, Shone LP, Barth R, Zhu Y, Schaffer S, Ambrose S, **Roy J**, Poehling KA, Edwards KM, Walker FJ, Schwartz B.: The impact of conjugate pneumococcal vaccination on routine childhood vaccination and primary care use in 2 counties. Pediatrics 118(4): 1394-1402, 2006.
 25. Grunier A, Mor V, Weitzen S, Truchil R, Teno J, **Roy J**: Where people die: a multi-level approach to understanding influences on site of death in America. Medical Care Research

- and Review 64(4): 351-78, 2007.
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