

Curriculum Vitae

Marnie Bertolet

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Academic Interests

- Clinical Trials
- Methods (Machine Learning, Bayesian)
- Cardiology and Transfusion Medicine

Education and Training

Undergraduate

1989-1993	Shippensburg University Shippensburg, PA	Bachelors of Arts 1993	Mathematics
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Graduate

1994-1995	Cornell University Ithaca, NY	Masters of Engineering 1995	Operations Research and Industrial Engineering
2000-2002	Carnegie Mellon University Pittsburgh PA	Masters of Science 2002	Statistics
2002-2008	Carnegie Mellon University Pittsburgh PA	Doctor of Philosophy 2008	Statistics

Appointments and Positions

Academic

2022 – Present	Associate Professor	Department of Epidemiology School of Public Health University of Pittsburgh Pittsburgh, PA
2022 – Present	Associate Professor Secondary Appointment	Department of Biostatistics School of Public Health University of Pittsburgh Pittsburgh, PA
2013 – Present	Member of the Graduate Faculty	School of Public Health University of Pittsburgh Pittsburgh, PA
2011 – 2019	Assistant Professor Secondary Appointment	Clinical and Translational Science Institute School of Medicine University of Pittsburgh Pittsburgh, PA

2010 – 2022	Assistant Professor	Department of Epidemiology School of Public Health University of Pittsburgh Pittsburgh, PA
2008 – 2010	Visiting Assistant Professor	Department of Epidemiology School of Public Health University of Pittsburgh Pittsburgh, PA
Non-Academic 1993-2000	Member of the Technical Staff	AT&T Bell Laboratories Holmdel and Middletown NJ

Membership in Professional and Scientific Societies

1991 – 1993	Chapter President, Kappa Mu Epsilon - Mathematics Honorary Society
2000 – Present	Member, American Statistical Association, National and Local Chapters
2000 – 2019	Member, Institute of Mathematical Statistics
2009 – Present	Member, International Biometric Society - Eastern North American Region
2009 – Present	Member, Society of Clinical Trials
2015 – Present	Member, Society for Epidemiologic Research

Honors

1989 - 1993	Recognition of Academic Achievement Shippensburg University
1990	Scholar Athlete Award Shippensburg University
1994 – 1995	Master's Degree Scholarship (OYOC) AT&T Bell Laboratories
1995	Most Outstanding Master of Engineering Student Cornell University
2000 - 2008	Carnegie Scholar Carnegie Mellon University
2004	Health Policy Statistics Student Paper Award: 2004 Joint Statistical Meetings
2008	Student of the Year Pittsburgh Chapter, American Statistical Association
2008	Documentation of Teaching Development. Eberly Center. Carnegie Mellon University.
2012	Certificate in Teaching Excellence University of Pittsburgh Graduate School of Public Health
2010, 2011, 2012, 2014	Nominated by students for the Craig Award for Excellence in Teaching. Graduate School of Public Health
2017	Diversity in the Curriculum Award, University of Pittsburgh Provost
2018	Diversity and Inclusion Certificate Program Completion University of Pittsburgh
2024	Delta Omega (Public Health Honorary Society) Membership

Professional Activities

Teaching

Courses Taught

Years Taught	Course Number: Title Institution	Hours of Lecture/Credits Average Enrollment	Role in Course Primary/Coordinator
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Undergraduate Classes

2010 – 2015	BIOST 1200: Introduction to Biostatistical Reasoning University of Pittsburgh	4.0 Credits 15-20 Students	Developed and was Primary Instructor for the Computer Laboratory Part of the Summer in Biostatistics (SIBS)
2010 – 2015	BIOST 1201: Undergraduate Seminar in Biostatistical Collaboration University of Pittsburgh	1.0 Credits 15-20 Students	Facilitated Select Journal Clubs: Providing Select Seminars Part of the Summer in Biostatistics (SIBS)
2001 – 2003	STAT 36-217: Probability Theory and Random Processes for Engineers Carnegie Mellon University	3.0 Credit Equivalent 15-20 Students	Primary and Sole Instructor

Graduate Classes

2023 – Present	EPID 2193: Machine Learning and Bayesian Analysis University of Pittsburgh	3.0 Credits 10-15 Students	Primary and Sole Instructor
2009 – Present	EPID 2215: Teaching Practicum University of Pittsburgh	2.0 Credits 1-3 Students	Faculty Lead for the Individual Courses
2009 – 2022	EPID 2181: Design and Conduct of Clinical Trials University of Pittsburgh	2.0 Credits 40-70 Students	Primary and Sole Instructor
2012 – 2017	EPID 2180: Epidemiologic Methods 1 University of Pittsburgh	3.0 Credits 40-60 Students	Guest Lecturer: Survey Sampling: Design and Analysis
2012 – 2017	EPID 2187: Epidemiologic Methods 2 University of Pittsburgh	3.0 Credits 40-60 Students	Guest Lecturer: Bayesian Analysis
2017 – 2019	CRES 2200: Clinical Methods Research University of Pittsburgh	3.0 Credits 40-60 Students	Instructor for 1/3 of the class covering Clinical Trials

Other Teaching (lectures, tutorials, and continuing education courses)

Date(s)	Type of Teaching	Title
2013, 2014 2015	Continuing Education for Pediatric Fellows Center for Translational and Science Institute	Creating Hypotheses
2013	Continuing Education Responsible Conduct of Research Center for Translational and Science Institute	The Nuts and Bolts of Data and Safety Monitoring Reporting
2013	Continuing Education Responsible Conduct of Research Center for Translational and Science Institute	Analyzing and Interpreting Data Ethically

Major Advisor for Graduate Student Essays, Theses, and Dissertations

Name of Student	Degree Awarded Year	Type of Document Title
Master's Students		
Jennifer Oakley, Epidemiology	MPH 2011- 2014	Essay Repeated Adipokine Measures in HIV Infected Men on HAART: Assessing Change in Adipokine Levels and their Correlation with Lipids over the Course of HIV Progression and Treatment
Qilu Zheng, Epidemiology	MS 2011-2015	Master's Thesis Plasma Biomarkers Prediction on Chronic Obstructive Pulmonary Disease Progression
Zhenping Zhao, Epidemiology	MPH 2012-2014	Essay Bone Mineral Density Loss in Women who Initiated Antihypertensive Medications During the Menopausal Transition in a Multicenter, Multiethnic, Community-Based Cohort Study: Women's Health Across the Nation (SWAN)
Chendi Cui, Epidemiology	MS 2014-2016	Master's Thesis Marine n-3 fatty acid intake, glutathione S-transferases (TST) polymorphisms and colorectal cancer risk: The Singapore Chinese Health Study
Gabrielle Snyder, Epidemiology	MPH 2014-2015	Essay Associations Between Breast Feeding and Weight Change 7-15 Years Post-Partum: Data from the POUCH moms Study

Ashley Sier, Epidemiology	MPH 2016-2018	Essay Analysis of Comorbid Conditions Associated with Intrauterine Device Removal within an Inpatient Population
Florence Kwok, Epidemiology	MPH 2016-2018	Essay Decreasing low-acuity emergency department utilization among pediatric patients: a systematic review
Deidra Balchek, Epidemiology	MPH 2020-2021	Essay Risk Based Monitoring in the SCD-CARRE Trial
Adena Bowden, Epidemiology	MPH 2021-2022	Essay The Impact of Weight Stigma among Women with High Weight on Maternal and Birth Outcomes: a Scoping Review
Fadeke Akanbi	MS 2024-Present	Thesis TBD (Pressure Ulcers)
Doctoral Students		
Krissy Moehling, Epidemiology	PhD 2013-2018	Dissertation (Part Time) Associations for frailty, quality of life indicators and spirituality on immune system response to influenza vaccine in adults 50 years of age and older
Hsin-Hui (Vivien) Huang Epidemiology PhD	PhD 2013-2017	Dissertation Effects of Aromatase Inhibitors (AIs) on Risk of Cardiovascular Diseases
Mwanatumu Mbwana Epidemiology	PhD 2016-2020	Dissertation Repeat coronary revascularization after PCI in patients with diabetes
Alice Arcury-Quandt, Epidemiology	PhD 2020 - Present	Dissertation TBD: Determining Priorities with Agent Based Modelling of Non-Pharmaceutical Interventions for Infectious Diseases using Value of Information Analyses
Ruopu Song, Epidemiology	PhD 2023 - Present	Dissertation TBD (Part Time Student)

Service on Masters or Doctoral Committees

Name of Student	Degree Awarded Year	Type of Document Title
Master's Students		
Lulu Zhang, Epidemiology	MPH 2008-2009	Essay (Chair: Brooks) Multicenter Clinical Trials: Leading the Way in Coordinated Care
Kristin Ray, Clinical Research	MS 2012-2014	Master's Thesis (External Committee Member) Using National Survey Data to Characterize Pediatric Specialist Use
Fangfang (Claudia) Chen Biostatistics	MS 2012-2013	Master's Thesis (External Committee Member) Epidemiology Research on Polycythemia Vera from 1962 to 2009
Kelsey Baker, Biostatistics	MS 2014-2015	Master's Thesis (External Committee Member) An analysis of survey data to determine significant risk factors associated with adolescent marijuana use through utilization of sample weighting methods.
Mansi Patel, Epidemiology	MPH 2014-2015	Essay (Chair: Barinas-Mitchell) Structural and Functional Arterial Changes in Healthy Women following Pregnancy: Maternal Vascular Adaptations to Healthy Pregnancy II Study
Sha Wu, Epidemiology	MPH 2014-2015	Essay (Chair: King) The Impacts of Lifestyle Interventions in Bariatric Patients: A Literature Review
Jessica Bon Field, Epidemiology	MS 2014-2015	Master's Thesis (Advisor: Diergaarde) Factors Associated with Longitudinal Bone Mineral Density Loss in a Tobacco-Exposed Cohort
Radhika Parekh Health Policy and Management	MHA 2014-2015	Essay (External Committee Member) How Time-Driven Activity Based Costing Reports Affect Healthcare Outcomes
Zhadyra Bizhanova, Epidemiology	MPH 2017-2018	Essay (Chair: Brooks) The Role of Leptin in Cardiovascular Outcomes in Patients with Type 2 Diabetes: An Analysis of the Bypass Angioplasty Revascularization Investigation 2 Diabetes (BARI 2D) Trial Data
Rheana Lipscomb, Epidemiology	MPH 2010-2021	Essay (Chair: King) The Classification of COVID-19 Mortality and Evaluation of Deceased Characteristics by Identification Method in Allegheny County, PA

Samantha Runa, Genetics	MPH and MS 2021-2022	Essay / Master's Thesis (External Member) Diagnostic Rates of Rapid Exome Sequencing in Clinical Settings
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Doctoral Students

Yoko Tanaka, Biostatistics	PhD 2009-2010	Dissertation (External Member) An Adaptive Two-State Dose-Response Design Method for Establishing Proof of Concept in Drug Development
Andrew Althouse, Epidemiology	PhD 2011-2013	Dissertation (Advisor: Brooks) Peripheral Arterial Disease: Prevention, Risk Factors and Detection
Michelle Kurta, Epidemiology	PhD 2011-2013	Dissertation (Adviser: Diergaarde) Ovarian Cancer Epidemiology: Risk, Diagnosis and Prognosis
Sondra Balouris, Rehabilitation Science and Technology	PhD 2011-2013	Dissertation (External Member) Development and Validation of the Cerebral Performance Categories - Revised (CPC-R)
Marc Ye Tian, Epidemiology	PhD 2012-2014	Dissertation (Advisor: Wisniewski) Using Classification Trees to identify Risk Factors for Chronic and Acute Pancreatitis
Prerna Poojary, Rehabilitation Science and Technology	PhD 2013-2016	Dissertation (External Member) Wheelchair Related Fall Risk and Function in Nursing Home Residents: Factors Related to Wheelchair Fit
Gaby Snyder, Epidemiology	PhD 2016 - Present	Dissertation (Advisor: Catov) Reproductive History and Early Vascular Aging in Women
Baiyang Sun, Epidemiology	PhD 2016 - 2024	Dissertation (Advisor: Catov) Preterm Delivery and Cardiovascular Health in Women of Reproductive Age
Alexander Layden, Epidemiology	PhD 2019-2022	Dissertation (Advisor: Catov) Investigating Placental Inflammation as a Mediator of Maternal Obesity and Risk of Preterm Birth
Rebecca Ehrenkranz, Epidemiology	PhD 2021-2023	Dissertation (Advisor: Rosano) A Population Neuroscience Approach to Energy Perception in Older Adults
Sarah Royse, Epidemiology	PhD 2022-2023	Dissertation (Advisor: Rosano) Toward Reducing Disparities: Identifying the

Biological, Genetic, and Socially-Determined Risk Factors for Alzheimer’s Disease in Older Adult African American Populations

Gerard Portela, Epidemiology	PhD 2020-2024	Dissertation (Advisor: Brooks) Optimizing comparative effectiveness evidence from transfusion medicine trials: informing clinical practice and study designs
Ziyuan Wang	PhD 2003 - Present	Dissertation (Advisor: El Khoudary) Midlife as a Critical Window for Cardiovascular Disease Prevention: Evaluation of Midlife Cardiovascular Health, Medication Use and Cardiovascular Disease Risk Prediction
Kharlya Carpio	PhD 2024 – 2024	Dissertation (Advisor: Adibi) Measuring the effects of social, physical and chemical environments in pregnancy: a biomarker approach to reduce disparities in maternal cardiovascular health.
Samantha Zhang	PhD 2024 – Present	Dissertation (Advisor: Balasubramani) Mediation and Moderation of Influenza Vaccination on the Perceived Severity of Acute Respiratory Illness
Sarah Scott	PhD 2004 – Present	Dissertation (Advisor: Fabio) Demographic and social correlates Teen Economic Abuse: Profiles of Teen Economic Abuse and Impacts of Parental Monitoring, Network Characteristics, and Economic Violence Condoning Attitudes on Teen Economic Abuse Experiences
Zhongjie Zhang	PhD 2025 – Present	Dissertation (Advisor: Yuan) TBD (GLP-1s)
Liz Swart	PhD 2025 – Present	Dissertation (Advisor: Catov) TBD

Service on Comprehensive or Qualifying Committees

Dates Served	Student Population i.e. 1 PhD Biostatistics student	Type of Exam (Qualifying/Comprehensive)
2015-2020	5-7 Epidemiology PhD Students per Year	Epidemiology Preliminary Exam
2013-2019	15-20 Biostatistics PhD Students per Year	Biostatistics Public Health Exam

Research and Training

Grants and Contracts Received

Co-Investigator

**include institutional grants as well as inter-institutional subcontracts for which you are officially listed as Co-Investigator (e.g., key personnel designation in NIH grant)*

Years Inclusive	Grant and/or Contract Number and Title (PI: Name; Institution)	Source	Annual Direct Costs*	%Effort
* From NIH Reporter				
2024-2029	Implementing and Personalizing Best-In-Class Opioid-sparing Pain Management for Major Inpatient Surgeries in Children (PI: Senthilkumar Sadhasivam: University of Pittsburgh)	NIH 1U01HD116257	\$3.4M	20%
05/2019 – 04/2026	Sickle Cell Disease and Cardiovascular Risk – Red Cell Exchange Trial (SCD-CARRE) - Data Coordinating Center (PI: Maria M Brooks: University of Pittsburgh)	NIH/NHLBI 1U24HL143217	~\$439K	20%
09/2016 – 12/2024	Myocardial Ischemia and Transfusion (MINT)- Data Coordinating Center (PI: Maria M Brooks: University of Pittsburgh)	NIH/NHLBI U01 HL 132853-01	~\$480K	20%
12/2022 – 11/2026	Reducing Inflammation for Greater Health Trial, Project 3: Targeting Inflammation in CVD And Dementia (PI: Anne Newman University of Pittsburgh)	Greater Houston Community Found. (WoodNext Found)	~\$646K	10-15%
02/2020 – 02/2022	Hemophilia Inhibitor Prevention and Eradication (INHIBIT) (PI: Margaret V Ragni: University of Pittsburgh)	HRSA H30 MC24050		
04/2019 – 03/2021	Shared Antecedents to Pre-Term Birth and Cardiovascular Disease in Women (PI: Janet Catov: University of Pittsburgh)	NIH/NHLBI 1R21 HL145419	~\$99K	5%

07/2019 – 12/2022	Reducing Inflammation for Greater Health Trial, (PI: Anne Newman Dan Forman, Toren Finkel, University of Pittsburgh)	Aging Institute of UPMC		10-15%
09/2019 – 05/2021	Trans-Agency Research Consortium for Trauma Induced Coagulopathy (TACTIC) (PI: Steve Wisniewski: University of Pittsburgh)	NIH/NHLBI UM1 HL120877	~\$820K- \$9.2M	20%
09/2011 – 05/2020	Clinical and Translation Science Institute: Design, Biostatistics and Epidemiology Core (PI: Steve Wisniewski: University of Pittsburgh)	NIH UL RR024153-06 3UL1TR001857	~\$2.6M- \$7.6M	20%
07/2016 – 06/2019	Pregnancy Related Risk Factors and Glucose Intolerance in Women during Midlife (PI: Janet Catov: University of Pittsburgh)	Kaiser Foundation		5%
09/2013 – 06/2018	Translational Evaluation of Aging, Inflammation, and HIV in Lung Dysfunction (PI: Alison Morris: University of Pittsburgh)	NIH 1R01HL120398	\$502K	20%
07/2014 – 05/2016	Longitudinal evaluation of HIV-associated lung disease phenotypes (PI: Alison Morris: University of Pittsburgh)	NIH R01HL125049	\$560K	5%
07/2014 – 06/2016	Mentoring and Patient-Oriented Research in HIV Obstructive Lung Disease (PI: Alison Morris: University of Pittsburgh)	NIH K24HL123342	\$105K	5%
09/2009 – 02/2016	Biostatistics with a focus on cardiovascular health and minority populations (PI: Roslyn Stone: University of Pittsburgh)	NIH 1T15HL09777	~\$250K	5%
09/2013 – 07/2015	Treatment and Risk Factor Determinants of Cardiovascular Outcomes in BARI 2D	NIH/NHLBI R21 HL121495	~\$70K	20%

	(PI: Maria M Brooks: University of Pittsburgh)			
09/2012 – 07/2015	RCT on Wheeled Mobility for Preventing Pressure Ulcers (PI: David Brienza: University of Pittsburgh)	NIH R01 HD041490	~\$350K	5%
0/92012 – 06/2014	Statins for Pulmonary and Cardiac Complications of Chronic HIV (PI: Alison Morris: University of Pittsburgh)	NIH/NHLBI R34 HL117344	\$444K- \$725K	10%
05/2012 – 04/2014	Role of Microbial Translocation in Cardiopulmonary Disease (PI: Alison Morris: University of Pittsburgh)	NIH/NHLBI R21 HL114231	~\$75K	5%
09/2012 – 09/2013	Mechanism of Asthma in HIV Infected Individuals (PI: Alison Morris: University of Pittsburgh)	NIH/NAIAD U01 AI035041-20	~\$3.7M	5%
09/2012 – 09/2013	Randomized Clinical Trial to Prevent Iron Deficiency in Infants (PI: Deborah Bogen: University of Pittsburgh)	Heinz Foundation		10%
09/2012 – 09/2013	Maternal Obesity, Weight Gain and the Black-White Disparity in Pregnancy Outcomes (PI: Lisa Bodnar: University of Pittsburgh)	NIH/NICHD R21 HD065807	\$150K	5%
09/2011 – 9/2014	Maternal Obesity, Weight Gain and the Black White Disparity in Pregnancy Outcomes (PI: Lisa Bodnar: University of Pittsburgh)	Thrasher Research Fund		5%
09/2010– 8/2011	Comparison of Bayesian and Frequentist Methods in Cardiovascular Trials (PI: Marnie Bertolet: University of Pittsburgh)	Kaiser Permanente		25%
08/2008 – 12/2012	BARI 2D Data Coordinating Center: A Trial of Revascularization and Glycemic Control in NIDDM (PI: Sheryl Kelsey: University of Pittsburgh)	NIH / NHLBI U01 HL061744	~\$887K- \$2.3M	50%

Invited Presentations Related to Your Research

Date	Title of Presentation	Venue
12/2008	To Weight or Not To Weight? The Next Steps.	Carnegie Mellon University; Department of Statistics Pittsburgh, PA
01/2009	To Weight or Not To Weight? Incorporating Sampling Designs into Model-Based Analyses	University of Pittsburgh Department of Statistics Pittsburgh, PA
03/2009	A Random Patient is Weighting: Increasing Generalizability of Clinical Trials	University of Pittsburgh Department of Epidemiology Pittsburgh, PA
03/2011	Effect of Cardiac Risk Factors on Clinical Outcomes in BARI 2D: Exploring Different Modeling Strategies	University of Pittsburgh Department of Epidemiology Pittsburgh, PA
10/2011	What the p-value?!?! Reasons I am a Bayesian and You Should be Too!	University of Pittsburgh Department of Epidemiology Pittsburgh, PA
02/2011	What the p-value?!?! Reasons I am a Bayesian and You Should be Too!	University of Pittsburgh School of Health and Rehabilitation Services Pittsburgh, PA
03/2012	What the p-value?!?! Reasons I am a Bayesian and You Should be Too!	University of Pittsburgh Health Services Research Seminar Series (CHRC, CHERP, RAND); Pittsburgh, PA
10/2013	Tricking Frequentist Software to Run Bayesian Analyses	University of Pittsburgh Department of Biostatistics Pittsburgh PA
06/2014	Probabilities and Clinical Trials: Reasons why I'm a Annual Research Meeting Bayesian and you should be too!	University of Pittsburgh Critical Care Department Pittsburgh PA
02/2016	Response-Adaptive Trials: The Reality can be Messy	University of Pittsburgh Department of Biostatistics Pittsburgh PA
05/2018	Transforming Curriculum to be more Inclusive. Individual Presentations and Panel Discussions with	University of Pittsburgh Provost's Diversity Institute for

	Beaulieu J, Ciccopioppo M, Harkins, E Soudi, A.	Faculty Development Pittsburgh PA
06/2021	Transforming the future of epidemiologic practice through justice, equity, diversity, and inclusion (JEDI): Practical considerations and lessons learned. Individual Presentations and Panel Discussions with Bates L, Balkus J, Bertolet M, Bevan S, Gonzalez D, Magid H, McClure L, Odden M, Pamplin J, Zia Y.	Society for Epidemiologic Research Presentation and Panel Discussion
07/2021	Intergroup Dialogue for Social Justice Education. Dismantling Oppressive Systems: Building Just Communities Panel Discussions with Browne M,	University of Pittsburgh Diversity Forum Pittsburgh PA
0/2021	Diversity Activities in Epidemiology and Across the University.	University of Pittsburgh Department of Epidemiology Pittsburgh, PA
02/2022	Aligning Teaching and Assessment Practices with an Anti-Racist Mission: Practical Considerations and Struggles. Individual Presentations and a Panel Discussion with Huguley J.	Assessment and Teaching Conference
03/2022	So a Statistician walks into an Epi Data Center ...	Carnegie Mellon University Department of Statistics Pittsburgh PA
02/2023	If you cannot Estimate then Simulate: How Simulations Guided Decisions on Recent Clinical	University of Pittsburgh Department of Epidemiology Pittsburgh PA

Publications

Refereed Articles – Published or In Press

1. Cosgrove JL, **Bertolet M**, Chase SL, Cosgrove GK. Epidural steroid injections in the treatment of lumbar spinal stenosis efficacy and predictability of successful response. *American Journal of Physical Medicine & Rehabilitation*. 2011 Dec; 90 (12):1050-5. PMID: 22019962.
2. Schwartz L, **Bertolet M**, Feit F, Fuentes F, Sako EY, Toosi MS, Davidson CJ, Ikeno F, King SB 3rd. Impact of completeness of revascularization on long-term cardiovascular outcomes in patients with type 2 diabetes mellitus: results from the Bypass Angioplasty Revascularization Investigation 2 Diabetes (BARI 2D). *Circulation. Cardiovascular Interventions*. 2012 Apr; 5 (2):166-73. PMID: 22496082. doi: 10.1161/circinterventions.111.963512
3. Jacobs AK, Kushner FG, Ettinger SM, Guyton RA, Anderson JL, Ohman EM, Albert NM, Antman EM, Arnett DK, **Bertolet M**, Bhatt DL, Brindis RG, Creager MA, DeMets DL, Dickersin K, Fonarow GC, Gibbons RJ, Halperin JL, Hochman JS, Koster MA, Normand SL, Ortiz E, Peterson ED, Roach WH Jr, Sacco RL, Smith SC Jr, Stevenson WG, Tomaselli GF, Yancy CW, Zoghbi WA, Harold JG, He Y, Mangu PB, Qaseem A, Sayre MR, Somerfield MR. ACCF/AHA clinical practice guideline methodology summit report: a report of the American College of Cardiology Foundation/American Heart Association Task Force on Practice Guidelines. *Journal of The American College of Cardiology*. 2013 Jan 15; 61 (2):213-65. PMID: 23238451. doi: 10.1016/j.jacc.2012.09.025

4. Jacobs AK, Kushner FG, Ettinger SM, Guyton RA, Anderson JL, Ohman EM, Albert NM, Antman EM, Arnett DK, **Bertolet M**, Bhatt DL, Brindis RG, Creager MA, DeMets DL, Dickersin K, Fonarow GC, Gibbons RJ, Halperin JL, Hochman JS, Koster MA, Normand SL, Ortiz E, Peterson ED, Roach WH Jr, Sacco RL, Smith SC Jr, Stevenson WG, Tomaselli GF, Yancy CW, Zoghbi WA. ACCF/AHA clinical practice guideline methodology summit report: a report of the American College of Cardiology Foundation/American Heart Association Task Force on Practice Guidelines. *Circulation*. 2013 Jan 15; 127 (2):268-310. PMID: 23230312. doi: 10.1161/CIR.0b013e31827e8e5f
5. Farkouh ME, Boden WE, Bittner V, Muratov V, Hartigan P, Ogdie M, **Bertolet M**, Mathewkutty S, Teo K, Maron DJ, Sethi SS, Domanski M, Frye RL, Fuster V. Risk factor control for coronary artery disease secondary prevention in large randomized trials. *Journal of The American College of Cardiology*. 2013 Apr 16; 61 (15):1607-15. PMID: 23500281. doi: 10.1016/j.jacc.2013.01.044.
6. Tomaszewski JJ, Chen YF, **Bertolet M**, Ristau BT, Woldemichael E, Nelson JB. Obesity is not associated with aggressive pathologic features or biochemical recurrence after radical prostatectomy. *Urology*. 2013 May; 81 (5):992-6. PMID: 23453649. doi: 10.1016/j.urology.2012.10.080.
7. Sjaarda L, Lee S, Tfayli H, Bacha F, **Bertolet M**, Arslanian S. Measuring β -cell function relative to insulin sensitivity in youth: does the hyperglycemic clamp suffice? *Diabetes Care*. 2013 Jun; 36 (6):1607-12. PMCID: PMC3661845. PMID: 23275361. doi: 10.2337/dc12-1508.
8. Fujiyoshi A, Sekikawa A, Shin C, Masaki K, David Curb J, Ohkubo T, Miura K, Kadowaki T, Kadowaki S, Kadota A, Edmundowicz D, Shah A, Evans RW, **Bertolet M**, Choo J, Willcox BJ, Okamura T, Maegawa H, Murata K, Kuller LH, Ueshima H, ERA JUMP (Electron-Beam Tomography, Risk Factor Assessment Among Japanese and U.S. Men in the Post-World War II Birth Cohort) Study Group. A cross-sectional association of obesity with coronary calcium among Japanese, Koreans, Japanese Americans, and U.S. whites. *European Heart Journal Cardiovascular Imaging*. 2013 Sep; 14 (9):921-7. PMCID: PMC3738098. PMID: 23764486.
9. Sekikawa A, Willcox BJ, Usui T, Carr JJ, Barinas-Mitchell EJ, Masaki KH, Watanabe M, Tracy RP, **Bertolet MH**, Evans RW, Nishimura K, Sutton-Tyrrell K, Kuller LH, Miyamoto Y. Do differences in risk factors explain the lower rates of coronary heart disease in Japanese versus U.S. women? *Journal of Women's Health* (2002). 2013 Nov; 22 (11):966-77. PMCID: PMC3820126. PMID: 24073782.
10. Althouse AD, Abbott JD, Forker AD, **Bertolet M**, Barinas-Mitchell E, Thurston RC, Mulukutla S, Aboyans V, Brooks MM, BARI 2D Study Group. Risk factors for incident peripheral arterial disease in type 2 diabetes: results from the Bypass Angioplasty Revascularization Investigation in type 2 Diabetes (BARI 2D) Trial. *Diabetes Care*. 2014; 37 (5):1346-52. PMCID: PMC3994929. PMID: 24595631. doi: 10.2337/dc13-2303.
11. Saleh AA, Ratajeski MA, **Bertolet M**. Grey Literature Searching for Health Sciences Systematic Reviews: A Prospective Study of Time Spent and Resources Utilized. *Evidence Based Library and Information Practice*. 2014 Aug; 9 (3):28-50. PMCID: 4405801. PMID: 25914722. doi: <http://dx.doi.org/10.18438/B8DW3K>.
12. Sekikawa A, Miura K, Lee S, Fujiyoshi A, Edmundowicz D, Kadowaki T, Evans RW, Kadowaki S, Sutton-Tyrrell K, Okamura T, **Bertolet M**, Masaki KH, Nakamura Y, Barinas-Mitchell EJ, Willcox BJ, Kadota A, Seto TB, Maegawa H, Kuller LH, Ueshima H, ERA JUMP Study Group. Long chain n-3 polyunsaturated fatty acids and incidence rate of coronary artery calcification in Japanese men in Japan and white men in the USA: population based prospective cohort study. *Heart (British Cardiac Society)*. 2014 Apr; 100 (7):569-73. PMID: 24352736.
13. Gingo MR, Balasubramani GK, Rice TB, Kingsley L, Kleerup EC, Detels R, Seaberg EC, Greenblatt RM, Holman S, Huang L, Sutton SH, **Bertolet M**, Morris A. Pulmonary symptoms and diagnoses are associated with HIV in the MACS and WIHS cohorts. *BMC Pulmonary Medicine*. 2014; 14:75. PMCID: PMC4021087. PMID: 24884738. doi: 10.1186/1471-2466-14-75.
14. Bodnar LM, Abrams B, **Bertolet M**, Gernand AD, Parisi SM, Himes KP, Lash TL. Validity of birth certificate-derived maternal weight data. *Paediatric and Perinatal Epidemiology*. 2014 May; 28 (3):203-12. PMID: 24673550.

15. Catov JM, **Bertolet M**, Chen YF, Evans RW, Hubel CA. Nonesterified fatty acids and spontaneous preterm birth: a factor analysis for identification of risk patterns. *American Journal of Epidemiology*. 2014 May 15; 179 (10):1208-15. PMCID: PMC4010188. PMID: 24714724. doi: 10.1093/aje/kwu037.
16. Ray KN, Bogen DL, **Bertolet M**, Forrest CB, Mehrotra A. Supply and utilization of pediatric subspecialists in the United States. *Pediatrics*. 2014 Jun; 133 (6):1061-9. PMID: 24799548. doi: 10.1542/peds.2013-3466
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33. Baiyang Sun, **Marnie Bertolet**, Cora E Lewis, Erica P Gunderson, Janet M Catov Abstract MP61: Preterm Delivery and Patterns of Cardiometabolic Risk Factors Pre-and Post-Childbearing: Coronary Artery Risk Development in Young Adults Study. *Circulation*. 3/5/2019. Page AMP61
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40. Layden A, Catov J, **Bertolet M**; Analytic Approaches to Handling Common Sources of Bias in Placental Histopathology Studies; SER Virtual mid-year meeting (Jan 2023)
41. Arcury-Quandt AE, LaMonto N, **Bertolet M**. Value of information analysis in health and healthcare research, 2000-202. APHA 2022 Annual Meeting and Expo. November 2022.
42. Carson JL, **Brooks MM**, Hebert PC, Goodman SG, Bertolet M, Steg, PG, Chaitman BR, Simon T, Glynn SA, Lopes RD, Goldsweig AM, Defilippis AP, Abbott JD, Cooper HA, Kostis WJ, Rao S, Fergusson D, White HD, Alsweller C, Triulzi D, Kelsey SF, Noveck H, Alexander JH. Restrictive versus Liberal Blood Transfusion in Patients With Myocardial Infarction and Anemia: Results of the MINT Trial. *Circulation*. 2023; 148 (25) e284.
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45. Ghafghazi S, Triulzi D, Carson, J Herbert P, Raval J, Senaratne J, Herbert B, **Bertolet M**, Uhl L. Serious transfusion related adverse Events associated with a Restrictive vs. Liberal Blood Transfusion Strategy in Patients with Myocardial Infarction and Anemia: MINT Randomized Controlled Trial. *International Society of Blood Transfusions 2024 (Accepted)*.
46. Portela G, Carson J, Swanson S, Alexander J, Hebert P, Goodman S, Steg P, **Bertolet M**, Strom J, Fergusson D, Brooks MM. Effect of four hemoglobin transfusion threshold strategies in patients with

acute myocardial infarction and anemia: a target trial emulation using MINT trial data. European Society for Cardiology 2024 (Accepted)

47. Simon T, Herbert B, Brooks MM, Goodman S, Alexander J, Steg PG, Lopes R, Ghafghazi S, Bouleti C, Cooper H, McCamant EL, Bainey KR, Aronow HD, Abbott JD, Alswailer C, **Bertolet M**, Fergusson DA, Goldsweig AM, Hebert PC, Carson JL. Restrictive or liberal transfusion strategy in patients with acute MI and anemia: 6-month mortality in the Myocardial Ischemia and Transfusion (MINT) trial. European Society of Cardiology 2024 (Accepted)
48. Carson JL, Fergusson DA, Noveck H, Mallick R, Simon T, Rao SV, Cooper H, Stanworth S, Portela GT, Ducrocq G, **Bertolet M**, DeFilippis A, Goldsweig A, Kim S, Triulzi D, Menegus M, Abbott JD, Brooks MM, Alexander JH, Hebert PC, Goodman SG, Steg PG. Individual Patient Data Meta-Analysis Comparing Restrictive versus Liberal Blood Transfusion Strategies in Patients with Acute Myocardial Infarction and Anemia. European Society for Cardiology 2024
49. Strom JB, Herbert BM, **Bertolet M**, Malik S, Chaitman BR, Lemesle G, Madan M, Steg PG, Traverse HJ, White H, Alswailer C, Alexander HJ, Lopes RD, Carson J. Restrictive or Liberal Blood Transfusion in Patients with Myocardial Infarction and Renal Insufficiency American Heart Association Scientific Sessions 2024
50. Portela GT, Ducrocq G, Alexander JH, Goodman SG, Glynn S, Strom JB, Lemesle G, Rao SV, **Bertolet M**, Swanson SA, Tessalee M, Goldfarb M, Silvian J, Traverse J, Uhl L, Polonsky T, Alswailer C, Carson JL, Brooks MM. Personalized Transfusion Strategy Decisions Reduced Risk of 30-day Major Adverse Cardiovascular Events in Patients with Acute Myocardial Infarction and Anemia. American Heart Association Scientific Sessions Nov 2024.

Technical and Government Reports

1. **M. Bertolet**, H. Seltman, J.Greenhouse, K.Kelleher. National Survey of Adolescent and Child Well-Being (NSCAW): A Comparison of Model and Design Based Analyses of Cognitive Stimulation Scores. Technical Report #772. Carnegie Mellon University, Department of Statistics. March 2003.
2. **M. Bertolet**. Sampling Weights, Model Misspecification and Informative Sampling: A Simulation Study. Carnegie Mellon University, Department of Statistics, Technical Report #872. January 2009.
3. **M. Bertolet**. Sampling Weights in a Bayesian Grade of Membership Model. Carnegie Mellon University, Department of Statistics, Technical Report #873. February 2009.

Service

Service to School and University

Years	Activity	Position
Departmental		
2002 - 2003	Department of Statistics Computer Committee, Carnegie Mellon University	Student Liaison
2015 - Present	Epidemiology Award and Scholarship Committee Department of Epidemiology University of Pittsburgh	Member
2020 - Present	Epidemiologists Promoting Equity and Anti-Racism Department of Epidemiology University of Pittsburgh	Co-Chair

School

2011, 2014, 2015, 2021	Dean's Day Poster Competition School of Public Health University of Pittsburgh	Judge
2016-2019	Faculty Diversity Committee School of Public Health University of Pittsburgh	Epidemiology Representative
2016-2019	Intergroup Dialogue School of Public Health University of Pittsburgh	Co-Facilitator
University		
2003 - 2004	Department of Statistics Student Advisory Committee Carnegie Mellon University	Student Representative
2003 - 2004	Department of Statistics Graduate Student Assembly Carnegie Mellon University	Student Representative
2010 - 2012	Monthly Statistical Methods in Epidemiology Journal Club Department of Epidemiology Clinical and Translational Science Institute University of Pittsburgh	Facilitator
2018	Provost Diversity in the Curriculum Award University of Pittsburgh	Reviewer

Service to Field of Scholarship

Date	Organization	Position
2011 - 2012	ACCF/AHA Methodology Workshop on Guideline Development and Methodology Review, American College of Cardiology, Member of Workgroup 3 - Standards for Finding and Assessing Individual Studies.	Member

Manuscript and other Documentation/Publication Review

Years (First - Most Recent)	Journal Title (# Reviews)
Reviewer	
2015 – 2015	American Journal of Clinical Psychiatry (1)
2011 – 2011	American Journal of Managed Care (1)
2013 – 2013	American Journal of Pharmacy Benefits (2)
2015 – 2015	BMC Medical Informatics and Decision Making (1)

2013 – 2013	BMC Nephrology (1)
2014 – 2022	Circulation (2)
2014 – 2014	Circulation: Cardiovascular Interventions (2)
2016 – 2023	Circulation: Cardiovascular Quality and Outcomes (16)
2015 – 2016	Circulation: Heart Failure (1)
2009 – 2020	Clinical Trials (2)
2023 – 2024	Diabetes Care (5)
2012 – 2012	Journal of the American Geriatrics Society (3)
2016 – 2016	Journal of Clinical Psychiatry (1)
2016 – 2022	Journal of Thoracic and Cardiovascular Surgery (38)
2017 – 2017	Lifetime Data Analysis (1)
2021 – 2021	Pedagogy in Health Promotion (1)
2011 – 2011	Sleep (1)
2015 – 2015	Women's Health Issues (2)
2013 – 2014	Statistics in Medicine (2)
2016 – 2021	Stroke (2)

Deputy Statistical Editor

2019 – 2022	Journal of Thoracic and Cardiovascular Surgery
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Leadership in Scholarly and Professional Organizations and Honorary Societies

Date	Organization	Position
1991 – 1993	Kappa Mu Epsilon Mathematics Honorary Society Shippensburg University Chapter	Chapter President
2013 – 2014	American Statistical Association Pittsburgh Chapter	Chapter President, Past President

Service for Practice and Policy-Making, including Consultantships

Governmental Organizations

Date	Organization/Agency	Position and/or Type of Service
Grant Reviewer		
2009	NIH/NHLBI Grand Opportunities Phase II ARRA Grants	Ad Hoc Reviewer
2010	NIH Moving Science Towards Research Translation and Contract Reviews	Ad Hoc Reviewer
2010	NIH/NIA Secondary Analysis of Comparative Effectiveness, Health Outcomes and Cost in Persons with Chronic Conditions (R21)	Ad Hoc Reviewer
2016, 2018	NIH/NIA Claude D Pepper Older Americans Independence Centers	Ad Hoc Reviewer
DSMB/OSMB		
2017 - 2021	Placebo-Controlled Effectiveness in INPH Shunting (PENS). Industry-Sponsored Data and Safety Monitoring Board	Statistical Member

2018 – 2021	Sickle Cell Disease-Implementation Consortium (SCD-IC), NHLBI Observational Study Monitoring Board	Statistical Member
2023 – Present	Trauma Resuscitation with Low-Titer Group O Whole Blood or Products (TROOP). NHLBI Data and Safety Monitoring Board.	Statistical Member

Non-Governmental and Community-Based Organizations

Date	Organization/Agency	Position
iDSMB Membership at the University of Pittsburgh		
2012 - 2013	Effect of Ultra Filtration on Clinical Outcomes and Health-Related QoL in Cardio-Renal Failure by Kelly Liang	Statistical Member
2012 – 2015	Patient-Provider Communication in Pregnancy Care by Dr. Judy Chang.	Statistical Member
2013 – 2015	Effect of Protocolized Diuretic Strategy on Clinical Outcomes and Health Related Quality of Life in Cardio-Renal Failure: a Randomized Trial (ProDiuS) by Dr. Kelly Liang.	Statistical Member
2013 – 2019	Effect of Treatment of OSA on Diabetes Self-Management and Glycemic Control: Diabetes OSA Treatment Trial (DOTT) Trial by Eileen Chasens.	Statistical Member
2015 – 2017	The Safety of High Dose Minocycline in the Patient Population Undergoing Carotid Revascularization. A Phase 1 Study by Lawrence Wechsler and Georgios Zenonos	Statistical Member
2015 – 2020	G2DM Study: Comparison of two Screening Strategies for Gestational Diabetes by Esa Davis.	Statistical Member
2016 – 2017	Institutional Data and Safety Monitoring Board for Early Rehabilitation Protocol in the Pediatric ICU for Children with Acute Brain Injury by Ericka Fink	Statistical Member