

CURRICULUM VITAE

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EDUCATION AND TRAINING

Undergraduate

| | | | |
|---------|---------------------------------------|---------------------------|-------------|
| 1984-88 | Duquesne University Pittsburgh, PA | B.A. (Cum Laude), 1988 | Mathematics |
|---------|---------------------------------------|---------------------------|-------------|

Graduate

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| 1988-90 | University of Pittsburgh Pittsburgh, PA | M.A., 1990 | Applied Statistics |
| 1990-96 | University of Pittsburgh Pittsburgh, PA | Ph.D., 1996 | Biostatistics |

APPOINTMENTS AND POSITIONS

Academic

| | | |
|-----------|-----------------------------------|--|
| 1988-90 | Teaching Assistant | Department of Mathematics, University of Pittsburgh |
| 1990-96 | Graduate Student Researcher | Department of Biostatistics, Graduate School of Public Health, University of Pittsburgh |
| 1996-02 | Research Associate | Department of Biostatistics, Graduate School of Public Health, University of Pittsburgh |
| 2002-2010 | Research Assistant Professor | Department of Biostatistics, Graduate School of Public Health, University of Pittsburgh |
| 2008-2012 | Deputy Director, Biostatistics | Center for Occupational Biostatistics and Epidemiology, Department of Biostatistics, Graduate School of Public Health, University of Pittsburgh |

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|-----------|---|---|
| 2010-2014 | Assistant Professor | Department of Biostatistics, Graduate School of Public Health, University of Pittsburgh |
| 2011-2014 | Assistant Professor | Department of Epidemiology, Graduate School of Public Health, University of Pittsburgh |
| 2011-2014 | Assistant Professor | Clinical and Translational Science Institute, University of Pittsburgh |
| 2011-date | Affiliate Investigator/Senior Biostatistician | Center for Health Equity Research and Promotion, VA Pittsburgh Healthcare System |
| 2012-date | Director | MS/MPH Program, Department of Biostatistics, University of Pittsburgh |
| 2015-date | Associate Professor | Department of Biostatistics, Graduate School of Public Health, University of Pittsburgh |
| 2015-date | Associate Professor | Department of Epidemiology, Graduate School of Public Health, University of Pittsburgh |
| 2015-date | Associate Professor | Clinical and Translational Science Institute, University of Pittsburgh |

MEMBERSHIP IN PROFESSIONAL AND SCIENTIFIC SOCIETIES

| | |
|-----------|--|
| 1995-date | Biometric Society (ENAR) |
| 1996-date | American Statistical Association (ASA) |
| 2010-date | Society for Epidemiological Research (SER) |
| 2017-date | American Association for the Advancement of Science (AAAS) |

HONORS

| | |
|------|---------------------------------------|
| 1986 | Phi Eta Sigma National Honor Society |
| 1988 | B.A., Cum Laude |
| 1988 | National Collegiate Mathematics Award |

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|---------|--|
| 1988 | Who's Who Among American Colleges and Universities |
| 1984-88 | Partial Competitive Scholarship, Duquesne University |
| 1988-90 | Full Tuition Scholarship & Assistantship, Department of Mathematics, University of Pittsburgh |
| 1990-96 | Full Tuition Scholarship & Assistantship, Department of Biostatistics, University of Pittsburgh |
| 1997 | Delta Omega National Honor Society in Public Health |
| 1997 | Student of the Year, American Statistical Society, Pittsburgh Chapter |
| 2006 | University of Pittsburgh Innovator Award |
| 2007 | Who's Who Among American Educators |
| 2009 | University of Pittsburgh Innovator Award |
| 2010 | University of Pittsburgh, GSPH Certificate in Teaching Excellence for Online Course Development and Teaching |
| 2010 | University of Pittsburgh, GSPH Certificate in Teaching Excellence for Principles of Good Practice and Teaching |
| 2013 | Performance Award, Center for Health Equity Research & Promotion, Veteran's Research Foundation of Pittsburgh |
| 2014 | Outstanding Reviewer, Substance Abuse Journal |
| 2015 | University of Pittsburgh, GSPH, Craig Teaching Award Nominee |

PROFESSIONAL ACTIVITIES

1. Teaching

a. Courses Taught

| Years Taught | Course Number: Title | Hours of Lecture, credits Average Enrollment | Role in course Primary/Coordinator |
|--|---|---|---|
| Summer 1989 | Math 0120: Business Calculus | 3 hrs/wk, 3 cr., 10-15 students | Primary Instructor |
| Summer 1989 | Math 7010: Algebra I | 1 hr/wk, 1 cr., 20-30 students | Primary Instructor |
| Summer 1990 | Math 7010: Algebra I | 1 hr/wk, 1 cr., 20-30 students | Primary Instructor |
| Summer 1990 | Math 7020: Algebra II | 1 hr/wk, 1 cr., 20-30 students | Primary Instructor |
| Fall 1997 | BIOS 2011: Introductory Biostatistics | 45 min/wk, 2 cr., 20-30 students | Co-Instructor |
| Fall 1998-2010 | BIOS 2081: Mathematical Methods for Statistics | 3 hrs/wk, 3 cr., 10-20 students | Primary Instructor |
| Spring 1998 | HSA 3002: Health Survey Methods | 45 min/wk, 2 cr., 20-30 students | Co-Instructor |
| Fall 2000 | BIOS 2043: Introduction to the Theory of Statistics I | 6 hrs/term, 3 cr., 6-10 students | Co-Instructor |
| Summer 2001-05 Spring 2007-11 Spring 2013-14 Spring 2016-date | BIOS 2049: Applied Regression Analysis | 3 hrs/wk, 3 cr., 40-50 students | Primary Instructor |
| Fall 2010-date Spring 2011 | BIOS 2058: Scientific Communication Skills | 2 hrs/wk, 2 cr., 7-10 students | Co-Instructor |
| Spring 2011 | BIOS 2086: Applied Mixed Models | 3 hrs/wk, 3cr.,30 students | Co-Instructor |
| Spring 2012 | BIOS 2086: Applied Mixed Models | 3 hrs/wk, 3cr.,18-25 students | Primary Instructor |

| Years Taught | Course Number: Title | Hours of Lecture, credits Average Enrollment | Role in course Primary/Coordinator |
|----------------------|--|---|---|
| Spring 2015 | BIOS 2086: Applied Mixed Models | 3 hrs/wk, 3cr., 14 students | Primary Instructor |
| Fall 2011, 2015-date | BIOS 2081: Mathematical Methods for Statistics | 3 hrs/wk, 3 cr., 10-20 students | Faculty Mentor |
| Fall 2015 | BIOS 2011: Principles of Statistical Reasoning | 3 hrs/wk, 3 cr., 80-90 students | Primary Instructor |
| Spring 2017 | BIOS 2011: Principles of Statistical Reasoning | 3 hrs/wk, 3 cr., 80-90 students | Faculty Mentor |

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

| Date(s) | Type of Teaching | Title |
|--|-------------------------|--|
| Fall 1996 | Several lectures | BIOS 2011: Introductory Biostatistics |
| Fall 1998 | Several lectures | BIOS 2011: Introductory Biostatistics |
| Spring 1999 | Several lectures | HSA 3002: Health Survey Methods |
| Summer 2000-2008 Fall 2010 | Lecture | EPID 2220: Environmental Epidemiology |
| Fall 2000 | Several lectures | BIOS 2011: Introductory Biostatistics |
| Spring 2004 | Several lectures | BIOS 2048: Occupational Biostatistics |
| Fall 2004 | Several lectures | STAT 1100: Business Statistics |
| Summer 1997, 1999, 2005 Fall 2005, 2006 | Training seminar | OCMAP-Plus for Windows |
| Spring 2010 | Several lectures | BIOS 2042: Introduction to Statistical Methods 2 |

| Date(s) | Type of Teaching | Title |
|-------------------------|-------------------------|--|
| Fall 2011, 2012 | Several lectures | BIOS 2046 – Analysis of Cohort Studies |
| Summer 2011, 2012, 2013 | Several lectures | Summer Institute of Biostatistics – Pittsburgh |

c. Major Advisor for Graduate Student Essays, Theses, and Dissertations

| Name of Student | Degree Awarded, Year | Type of Document and Title | Notes |
|------------------------|-----------------------------|--|--------------|
| Amie Sagady | MS BIOS, 2005 | An Analytical Approach Comparing Repeated Measures Analysis of Variance and Mixed Models in a Double Blind Placebo Controlled Clinical Trial | |
| Kang Sun | MS BIOS, 2005 | Positive Aspects of Alzheimer’s Caregiving: The Role of Ethnicity | |
| Solomon Quaynor | MS BIOS, 2007 | Assortative Mating as a Stratification Problem in Genetic Association Studies | Co-Advisor |
| Darren Lui | MS BIOS 2008 | The Role of Using IT Features in Nursing Home MDS Systems an Analytical Approach of Mediation and Moderation | |
| Nora Watson | MS BIOS 2008 | Longitudinal Relationships of Subclinical Cardiovascular Disease with Physical Function in Older Adults | |
| Hui Xu | MS BIOS 2009 | Comparison Between Respondents and Non-respondents in a Nested Case-Control Study of Brain Tumors | |
| Kamil Barbour | MS BIOS 2011 | Inflammatory Markers and the Risk of Hip Fracture: The Women’s Health Initiative | |
| Bratislav Janjic | MS BIOS 2012 | Analysis of the Level of Oxidative Phosphorilation in Breast Cancer Cell Types | |
| Katrina Zell | MS BIOS 2013 | An Analysis of Survey Data for Estimating Marcellus Shale Perceptions | |

| Name of Student | Degree Awarded, Year | Type of Document and Title | Notes |
|------------------------|-----------------------------|---|--------------|
| John Kasckow | MS BIOS 2014 | Using Latent Class Growth Modelling to Examine Cognitive Predictors of Suicidal Ideation in the Elderly | |
| Lei Ye | PhD BIOS 2014 | Semi-parametric Estimation Procedures Using Local Polynomial Smoothing for Inconsistently Sampled Longitudinal Data | |
| Olive Buhule | PhD BIOS 2014 | Bayesian Hierarchical Joint Modelling of Repeatedly Measured Mixed Biomarkers of Disease Severity and Time to Event | |
| Hai Vo | MS 2016 | An Application of Analyzing Correlated Binary Outcomes in a Study of Twins | |
| Heartly Egwuogo | MS | Left program | |
| John Kasckow | PhD BIOS | Ongoing | |
| Ying Qian | MS | Thesis advisor change | |
| Chris Freyder | MS | Thesis advisor change | |
| Peng Liu | MS | Thesis advisor change | |
| Yue Chen | MS ongoing | | |
| Natasha Sumetsky | MS ongoing | Thesis advisor change | |
| Regina Dutz | MS ongoing | | |
| Mita Lovalekar | MS ongoing | | |
| Sifang Zhao | MS ongoing | | |
| Tian He | MS ongoing | | |

d. Service on Masters or Doctoral Committees

| Dates Served | Name of Student | Degree Awarded | Title of Dissertation/Essay |
|---------------------|------------------------|-----------------------|---|
| 2001-2003 | Jen Barkin | MS BIOS | An Empirical Evaluation of How Odds Ratios Estimated From Nested Case-Control Studies are Affected by the Algorithm Used to Select Matched Controls |

| Dates Served | Name of Student | Degree Awarded | Title of Dissertation/Essay |
|---------------------|------------------------|-----------------------|---|
| 2002-2003 | Catherine Wright | MS EPID | Contribution of dietary intake and physical activity to obesity in women with Polycystic Ovary Syndrome |
| 2002-2004 | Tim Sell | PhD Sports Medicine | Neuromechanical Predictors of Dynamic Knee Stability |
| 2003-2004 | Weilian Sang | MS BIOS | Empirical Comparison of US Census Bureau Population Estimates used in the Mortality and Population Data System of the University of Pittsburgh, Department of Biostatistics |
| 2003-2006 | Mike Cunningham | MS BIOS | Reanalysis of Smoking and Lung Cancer in the National Cancer Institute Acrylonitrile Worker Cohort Study |
| 2004-2005 | Rosemarie Ramos | PhD EPID | Adult Asthma: The Novel Use of Public Health Methods to Investigate the Prevalence of Environmental Risk Factors |
| 2004-2005 | Nadra Tyus | PhD BCHS | Predictors of Chlamydia and Gonorrhea Screening Behaviors among High-Risk Young Women |
| 2004-2006 | Adina Soaita | DrPh BIOS | GEE Models for the Longitudinal Analysis of the Effects of Occupational Radiation Exposure on the Lymphocyte Counts in Russian Nuclear Workers |
| 2007-2008 | Kira Leishear | MS BIOS | An Analysis of Characteristics and Trends in Bariatric Surgery, 1999-2004, and a Comparison of Surgery Patients and Those Eligible for Surgery |
| 2007-2008 | Chieh-Hsin Kuan | MS BIOS | Primary Graft Dysfunction after Lung Transplant with T-cell Depletion |
| 2007-2008 | Wan-Chen Lo | MS BIOS | Analysis of Combined Effects of Discodermolide with Clinical Anticancer Agent, Paclitaxel |
| 2007-2009 | John Zeiner | MS BIOS | The Effects of Induced Sleep Fragmentation on Cardiac Sympathovagal Balance |
| 2007-2009 | Darren Lui | PhD BCHS | Health Information Technology and Nursing Homes |
| 2007-2009 | Helen Smith | PhD EPID | Health-related Characteristics Among Lesbian and Heterosexual Women Enrolled in the ESTHER (Epidemiologic Study of Health Risks) Project |

| Dates Served | Name of Student | Degree Awarded | Title of Dissertation/Essay |
|---------------------|------------------------|--------------------------------|--|
| 2007-date | Weilian Sang | PhD BIOS | Did not finish |
| 2007-2009 | Jeff Rohay | PhD BIOS | Statistical Assessment of Medication Adherence Data: A Technique to Analyze the J-Shaped Curve |
| 2009 | Tanya Bobo | PhD EPID Failed Overview | Nutritional Risk Factors of Bacterial Vaginosis |
| 2009-2011 | Christy Lawson | PhD EPID | Racial Disparities in Asthma Severity: A Comparison Between Black and White |
| 2009-2011 | Angela Malek | PhD EPID | The Relationship Between Environmental, Occupational, and Personal Lifestyle Risk Factors and Sporadic Amyotrophic Lateral Sclerosis in Western Pennsylvania |
| 2009-2011 | Simone Reynolds | PhD EPID | Fetal Growth in Preeclampsia: Effect of Infant Sex |
| 2009-2011 | Katya Giovannetti | MS EPID | The Association between Cigarette Smoking Cessation and Gestational Weight Gain |
| 2009-2015 | Jia Xu | PhD EPID | Low birthweight delivery and long term maternal cardiovascular health. |
| 2010-2011 | Kathleen McHugh-Pemu | PhD EPID | Left the program |
| 2011 | Jennifer Cooper | MS BIOS | Mechanisms driving the effect of weight loss on arterial stiffness |
| 2010 | Yu Mi (Amy) Kwon | PhD BIOS | An Imputation Method Under a Pseudolikelihood Method for Analysis of Multivariate Missing Data |
| 2010-2012 | Jesse Troy | PhD EPID | Human Papillomavirus (HPV) and Lifestyle in the Translational Epidemiology of Head and Neck Cancer |
| 2010-2012 | Jia Xu | MS BIOS | Relationship Between Overweight Status at Onset and Insulin Reserve in Children with Type 1 Diabetes |
| 2011-2012 | Yll Agimi | PhD BCHS | Role of State Driver Licensing Policies and Physician Reporting Laws on Older Driver Safety |
| 2011-2014 | Xiaoxue Li | PhD BIOS | Time Varying Coefficient Models for Gap Times in Ecological Momentary Assessment Data |

| Dates Served | Name of Student | Degree Awarded | Title of Dissertation/Essay |
|---------------------|------------------------|-----------------------|--|
| 2011-2012 | Michelle Kurta | PhD EPID | Committee change |
| 2011-2012 | Alicia Colvin | PhD EPID | The Role of Family History of Depression in the Development of Major Depression in Women During Midlife |
| 2012-2013 | Heartly Egwuogu | PhD EPID | The Longitudinal Effect of Low Kidney Function on Bone Mineral Density Change and The Association of Body Composition With Markers of Kidney Function Among Afro-Caribbean Men of West African Ancestry. |
| 2012-2015 | Jia Xu | PhD EPID | Low Birthweight Delivery and Long Term Maternal Cardiovascular Health. |
| 2012-2016 | Tammy Outly | PhD EPID | Serum Troponin I Levels and All-Cause Mortality and Incident Myocardial Infarction: Analysis of the Pittsburgh Veteran's Healthcare System |
| 2012-2016 | Robin Pokrzywinski | PhD EPID | Disparities in Body Mass Index by Sexual Orientation in Women |
| 2012 | Jiin Choi | PhD BIOS | Prediction in the Joint Modeling of Mixed Types of Multivariate Longitudinal Outcomes and a Time-to-Event Outcome. |
| 2012 | Zhaowen Sun | MS BIOS | Effects of Longitudinal Profiles of Pediatric End-Stage Liver Disease (PELD) Scores on Post-Transplant Survival |
| 2012-2013 | Sarah Downing | MS BIOS | Adjustment for Suspected Misclassified Smoking Data in an Historical Cohort Study of Workers Exposed to Acrylonitrile |
| 2011-2013 | Phil Greer | MS BIOS | A Cross-sectional, Multi-site Study of T1 Weighted Magnetic Resonance Image Properties |
| 2013 | Yimeng Liu | MS BIOS | A Comparison of Regression Methods in Data Subject to Detection Limits: An Application to Lung Fiber Analysis Among Brake Workers |
| 2013-2016 | Proma Paul | DrPh EPID | Comprehensive Cervical Cancer Prevention and Control: Potential Strategies at Different Stages of Cervical Cancer Progression. |

| Dates Served | Name of Student | Degree Awarded | Title of Dissertation/Essay |
|---------------------|------------------------|---------------------------------|---|
| 2013-2016 | John Walters | MS BIOS | T _{REG} , CD4 T _{EM} , AND CD8 T _{EMRA} Fail To Predict Acute Cellular Rejection in Living-donor Renal Allograft Recipients |
| 2013-2014 | Laura Berbert | MS BIOS | An Examination of Computerized Neurocognitive Test Scores as Predictors of Risk of Concussion in Collegiate Athletes. |
| 2014 | Deepan Kamraj | MS Rehab Science and Technology | Comparing Performance and Perception Among Experienced and Novice Users in Driving a Virtual Powered Wheelchair in a Wheelchair Driving Simulator |
| 2014 | Kelsey Baker | MS BIOS | An Analysis of Survey Data to Determine Significant Risk Factors Associated with Adolescent Marijuana Use Through Utilization of Sample Weighting Methods |
| 2014 | Hsiang-Yu Chen | MS BIOS | Stepped Wedge Cluster Randomized Controlled Trials: Sample Size and Power Determinations. |
| 2014-2016 | Jia-Yuh Chen | PhD BIOS | Joint Modeling of Bivariate Longitudinal and Bivariate Survival Data in Spouse Pairs |
| 2014-2016 | Qian Zhao | PhD EPID | Epidemiology of General, Regional and Ectopic Skeletal Muscle Fat in Aging African Ancestry Men |
| 2014-2015 | Lindsay Bow | MS EPID | Differential All-Cause Excess Mortality of the 1918 Influenza Pandemic in the U.S. Registration Area. |
| 2015 | Megan Marron | MS BIOS | Cross-validation in Group-based Latent Trajectory Modeling when Assuming a Censored Normal Model. |
| 2015 | Victor Talisa | MS BIOS | Effects of Medicare Part D Plan Switching on Prescription Drug Expenditures: A Longitudinal Analysis Using Mixture Models |
| 2015 | Zhen Li | MS BIOS | Deriving An Insulin Resistance Score in Youth With Type I Diabetes Mellitus Based on Clinical Risk Factors |

| Dates Served | Name of Student | Degree Awarded | Title of Dissertation/Essay |
|---------------------|------------------------|-----------------------|---|
| 2015-2017 | Amia Downes | PhD BCHS | A Process Evaluation of the National Institute for Occupational Safety and Health's (NIOSH) Respirator Approval Process |
| 2015 | Ying Qian | MS BIOS | Analysis of an Immuno-Focused Targeted Genetic Association Study on Melanoma |
| 2015 | Florentina Sileanu | MS BIOS | Towards Unbiased Estimation of the Optimal Time for Renal Replacement Therapy |
| 2015 | Xiaotian (Steven) Gao | MS BIOS | Analysis of Kidney Volume and Functional Outcomes Using Survival and Classification Tree Models |
| 2015-date | Lara Siminerio Lemon | PhD EPID | |
| 2015-2016 | Michael Zeleny | MS BIOS | Assessing Prognosis for Chronic Kidney Disease using Neural Networks |
| 2015-2016 | Peng Liu | MS BIOS | Power Analysis for Stepped Wedge Trials with Delayed Treatment Initiation and Longitudinal Measurements |
| 2015-2016 | Chris Freyder | MS BIOS | Using Linear Regression and Mixed Models to Predict Health Care Costs after an Inpatient Event |
| 2015-2016 | Matthew Johnson | MS BIOS | Analysis of Racial Differences in ICD Shock Burden Using Cox Proportional Hazards Regression |
| 2015-2016 | Amy Davis | MS Genetic Counseling | Non-Genetic Specialists' Experiences Ordering Chromosomal Microarrays |
| 2016 | Chunyan Wang | MS BIOS | Nonparametric Estimation of the Association between Liver Transplantation Waiting Time and Posttransplant Graft Failure. |
| 2016 | Nicholas Heaghney | MS BIOS | Can Medical Marijuana Stem Increases in Drug Related Death-Rates: A Time-Series Cross-Section Analysis |
| 2016 | Clair Smith | MS BIOS | Using Mixed Effects Models to Compare Differences in Stress Reactivity between Women with and without a Family History of Breast Cancer |

| Dates Served | Name of Student | Degree Awarded | Title of Dissertation/Essay |
|---------------------|------------------------------------|-----------------------|---|
| 2016 | Samantha Taylor | MS BIOS | Using Latent Class Mixture Models to Define Sepsis Endotypes |
| 2016 | Haoyi Fu | MS BIOS | Predicting Biomarkers for Early Diabetic Nephropathy in Children with Type I Diabetes Mellitus |
| 2017 | Chantele Mitchell Miland | PhD EPI | |
| 2017 | Meiqi (Wendy) He | MS BIOS | Evaluating the Effect of MEDICARE Shared Savings Program Accountable Care Organizations on Part D Pharmaceutical Spending and Use |
| 2017 | Christopher Keener | PhD BIOS | |
| 2017 | Jose Luis Andres Wilches-Gutierrez | PhD BCHS | |
| 2017 | Yaming Li | MS BIOS | Evaluating the Effect of Kidney Volume on Decline in Renal Function Using the Generalized Propensity Score |
| 2017 | Prerna Ranganathan | MS BIOS | |

e. Service on Comprehensive or Qualifying Examination Committees

| Dates Served | Student Population | Type of Exam (Qualifying/Comprehensive) |
|---------------------|---------------------------|---|
| 2001-date | BIOS PhD students | Applied Qualifying Exam |
| 2004 | Rosemarie Ramos | PhD (EPID) Comprehensive |
| 2004 | Nadra Tyus | PhD (BCHS) Comprehensive |
| 2007 | Jeff Rohay | PhD (BIOS) Comprehensive |
| 2007 | Darren Lui | PhD (BCHS) Comprehensive |
| 2008-date | BIOS MS students | Comprehensive Exam |
| 2008 | Helen Smith | PhD (EPID) Comprehensive |
| 2009 | Tanya Bobo | PhD (EPID) Overview |
| 2009 | Christy Lawson | PhD (EPID) Overview |
| 2009 | Simone Reynolds | PhD (EPID) Overview/Comprehensive |

| Dates Served | Student Population | Type of Exam (Qualifying/Comprehensive) |
|---------------------|---------------------------|---|
| 2009 | Angela Malek Bazaco | PhD (EPID) Overview/Comprehensive |
| 2010 | Amy Kwon | PhD (BIOS) Comprehensive |
| 2010 | Kathleen McHugh-Pemu | PhD (EPID) Overview/Comprehensive |
| 2010 | Katya Giovannetti | PhD (EPID) Overview |
| 2011 | Yll Agimi | PhD (BCHS) Comprehensive |
| 2011 | Alicia Colvin | PhD (EPID) Overview |
| 2011 | Jia Xu | PhD (EPID) Overview |
| 2012 | Heartly Egwuogu | PhD (EPID) Overview/Comprehensive |
| 2012 | Tammy Outly | PhD (EPID) Overview |
| 2012 | Jia Xu | PhD (EPID) Comprehensive |
| 2014 | Tammy Outly | PhD (EPID) Comprehensive |
| 2014 | Lindsay Bow | MS (EPID) Comprehensive |
| 2014 | Cynthia Salter | PhD (BCHS) Preliminary |
| 2015 | Robin Pokrzywinski | PhD (EPID) Comprehensive |
| 2015 | Qian Zhao | PhD (EPID) Comprehensive |
| 2015 | Amia Downes | PhD (BCHS) Overview/Comprehensive |
| 2017 | Chantele Mitchell Miland | PhD (EPID) Overview/Comprehensive |
| 2017 | Lara Siminerio Lemon | PhD (EPID) Overview/Comprehensive |
| 2017 | Christopher Keener | PhD (BIOS) Comprehensive |

f. Supervision of Post-Doctoral Students, Residents, and Fellows

| Dates Supervised | Name of Student | Position of Student |
|--------------------------|------------------------|---|
| March 2013-November 2013 | Arvind Srinath, MD | Attending Physician, Division of Pediatric Gastroenterology, Hepatology & Nutrition, Children's Hospital of Pittsburgh of UPMC |

g. Mentoring of Career Development Awardees

| Dates Mentored | Name/Title of Junior Investigator | Funding Agency/Annual Direct Costs |
|-----------------------|---|---|
| 03/01/16-02/28/21 | John Blosnich, PhD Core Investigator, Center for Health Equity Research and Promotion | VA HSR&D: \$88,341 CDA 14-408: <i>Health Outcomes and Healthcare use Among Transgender Veterans</i> The aims of this project are to understand health outcomes, healthcare utilization, and quality of care among transgender Veterans. |
| 04/01/16-03/31/21 | Adam Bramoweth, PhD Core Investigator, Center for Health Equity Research and Promotion | VA HSR&D: \$48,264 CDA 13-260: <i>Implementation of Brief Treatments for Insomnia in Primary Care</i> This project will compare the effectiveness of Brief Behavioral Treatment of Insomnia and Cognitive Behavioral Therapy for Insomnia and conduct a qualitative needs assessment to identify factors associated with the implementation of behavioral treatments for insomnia in Primary Care Patient Aligned Care Teams. |

2. Research and Training

a. Grants and Contracts Received

Principal Investigator

| Years Inclusive | Grant and/or Contract Number and Title | Source | Annual Direct Costs | % Effort |
|------------------------|---|---------------|----------------------------|-----------------|
| 1997-1998 | Enhancements to the Mortality and Population Data System (MPDS) | GSPH | \$5,000 | 20% |

| Years Inclusive | Grant and/or Contract Number and Title | Source | Annual Direct Costs | % Effort |
|------------------------|--|---|----------------------------|-----------------|
| 2008-2010 | A program of Biostatistical support: Statistical analyses using OCMAP-Plus for retrospective cohort data in a pharmaco-epidemiology setting | GlaxoSmithKline Research and Development, Worldwide Epidemiology Division | \$40,571 | 5% |
| 2008-2009 | Study of Cancer Rates in High Altitude US Counties | Amgen, Inc., Global Epidemiology Division | \$25,777 | 10% |
| 2010-2011 | A program of Biostatistical support: Statistical analyses using OCMAP-Plus for retrospective cohort data in a pharmaco-epidemiology setting – additional funding | Glaxo Smith Kline | \$9,772 | 25% |
| 2011-2012 | A Program of Biostatistical Support for the Analysis of Mortality and Population Data | 3M | \$6,713 | 5% |
| 2012-2013 | A Program of Biostatistical Support for the Analysis of Mortality and Population Data | Exponent | \$11,191 | 5% |
| 2013-2014 | A Program of Biostatistical Support for the Analysis of Mortality and Population Data | The Dow Chemical Company | \$10,670 | 8% |
| 2013-2014 | A Program of Biostatistical Support for the Analysis of Mortality and Population Data | Exponent #2 | \$11,170 | 8% |
| 2014 | Biostatistical Support for the Shipboard Hazard and Defense II (SHAD II) Project | Institute of Medicine | \$8,270 | 16% |
| 2014-2015 | A Program of Biostatistical Support for the Analysis of Mortality and Population Data | Exponent #3 | \$11,170 | 12% |

| Years Inclusive | Grant and/or Contract Number and Title | Source | Annual Direct Costs | % Effort |
|------------------------|---|---------------|----------------------------|-----------------|
| 2014-2015 | A Program of Biostatistical Support for the Analysis of Mortality and Population Data | Chevron | \$17,690 | 5% |
| 2015-2016 | T-15-HL097777: Summer Institute for Training in Biostatistics | NIH-NHLBI | \$236,854 | 10% |
| 2015-2016 | A Program of Biostatistical Support for the Analysis of Mortality and Population Data | ExxonMobil | \$11,091 | 11% |
| 2015-2018 | A Program of Biostatistical Support for the Analysis of Mortality and Population Data | Chevron | \$14,830 | 4% |

Co-Investigator on Grants

| Years Inclusive | Grant and/or Contract Number and Title | Source | Annual Direct Costs | % Effort |
|------------------------|---|--|----------------------------|-----------------|
| 1996-1999 | Continuation and Expansion of the Mortality Surveillance Program for the US Man-Made Mineral Fiber Industry | North American Insulation Manufacturer's Association | \$2,549,377 | 30% |
| 1996-1999 | Mortality Patterns among Pharmaceutical Workers at the Eli Lilly & Company, Clinton, IN Plant | Eli Lilly & Company | \$355,342 | 40% |
| 1999-2003 | Supplemental Funding for the Mortality Surveillance Program for the US Man-Made Mineral Fiber Industry | North American Insulation Manufacturer's Association | \$706,250 | 30% |
| 1999-2003 | Biostatistical and Epidemiological Support Program for Solutia, Inc | Solutia, Inc. | \$218,688 | 30% |

| Years Inclusive | Grant and/or Contract Number and Title | Source | Annual Direct Costs | % Effort |
|------------------------|---|--|----------------------------|-----------------|
| 1999-2000 | The Eli Lilly & Company, Clinton Plant Cohort Mortality Study: Comparative Study of the Tippecanoe Plant Mortality Experience | Eli Lilly & Company | \$86,272 | 30% |
| 2000-2010 | The Eli Lilly & Company, Clinton Plant Cohort Mortality Study, Five Year Mortality Surveillance Program | Eli Lilly & Company | \$128,662 | 10% |
| 2000-2005 | Mortality Patterns Among Workers Exposed to Chloroprene | International Institute of Synthetic Rubber Producers | \$631,957 | 40% |
| 2001-2010 | Menopausal Transition, Mental Health and Ethnicity, NIH Grant #: R01 MH59689-A1 | NIH | \$1,284,230 | 5% |
| 2001-2009 | Mortality Surveillance and the Epidemiologic Support Program for Owens Corning | Owens Corning | \$990,000 | 10% |
| 2002-2008 | Epidemiology and Biostatistical Component of the Pratt & Whitney Exploratory Cohort Mortality Study | Pratt & Whitney, Division of United Technologies Corporation | \$3,680,128 | 50% |
| 2009-2011 | Epidemiological and Biostatistical Support for Owens Corning | Owens Corning | \$95,817 | 10% |
| 2008-2011 | Epidemiology Study of Workers in the Tungsten-Carbide Industry | PA DOH (1) | \$217,391 | 25% |
| 2002-2011 | Epidemiology Study of Suspected Brain Cancer Excess at Pratt & Whitney CT Sites | Pratt & Whitney | \$45,783 | 2.5% |

| Years Inclusive | Grant and/or Contract Number and Title | Source | Annual Direct Costs | % Effort |
|------------------------|--|---|----------------------------|-----------------|
| 2010-2010 | Man-Made Vitreous Fibers and Respiratory Cancer Evaluation of the Epidemiological Evidence Since 2001 IARC Re-Evaluation | North American Manufacturers Association | \$18,685 | 7% |
| 2010-2012 | Updated and Expanded Study of Polycythemia Vera and Other Myeloproliferative Neoplasms in the Tri-County Area | PA DOH | \$129,849 | 10% |
| 2011 | Epidemiology Study of Workers in the Tungsten-Carbide Industry | PA DOH (2) | \$86,957 | 10% |
| 2011-2012 | Additional Reevaluation of the National Cancer Institute Formaldehyde Cohort Data | FormaCare | \$65,993 | 30% |
| 2011-2012 | Use of Human Exposure and Epidemiology Data in a Physiological Based Kinetic Modeling Risk Assessment for Chloroprene | International Institute of Synthetic Rubber Producers (IISRP) | \$35,180 | 25% |
| 2011 | Evaluation of Uncertainty Factors in NCI-NIOSH Diesel Exhaust in Miners Study Exposure Assessment and Their Impact of Risk Estimates and Exposure-Response Relationships | Mining Awareness Resources Group | \$25,000 | 10% |
| 2011-2012 | Understanding and Treating Neuropsychiatric Symptoms of Pediatric Physical Illness | NIH | \$23,853 | 20% |
| 2011-2013 | Center for Health Equity Research and Promotion | VA HSR&D | \$480,000 | 10% |

| Years Inclusive | Grant and/or Contract Number and Title | Source | Annual Direct Costs | % Effort |
|------------------------|--|--|----------------------------|-----------------|
| 2011-2014 | Tungsten Carbide with Cobalt Binder: An Historical Cohort and Nested Case-Control Study of Lung Cancer | International Tungsten Industry Association (ITIA) | \$685,086 | 10% |
| 2012-2013 | Reducing Depressive Symptoms in Physically Ill Youth | NIMH | \$23,853 | 20% |
| 2012-2014 | Health in Coal Mining and Non-Coal Mining Counties in Appalachia | Appalachian Research Initiative for Environmental Science | \$120,000 | 15% |
| 2012-2013 | Positive Affect: An Intervention to Reduce Racial Disparities in Osteoarthritis Pain and Functioning | VA CHERP Competitive Pilot Research Program | \$49,611 | 5% |
| 2012-2015 | Trial of Nurse-delivered Alcohol Brief Intervention for Hospitalized Veterans | VA HSR&D | \$233,606 | 20% |
| 2013-2016 | Connecting Dust Characteristics and Worker Health in Underground Coal Mining | Alpha Foundation for the Improvement of Mine Safety and Health, Inc. | \$797,602 | 10% |
| 2013-2018 | CIN 13-405 Center for Health Equity Research and Promotion (CHERP) | VA HSR&D | \$553,000 | 5.25% |
| 2014-2017 | Update and Enhancement of the Mortality and Population Database System (MPDS) | GSPH, Dean's Office | \$152,724 | 10% |
| 2014-2019 | IIR 13-080 Staying Positive: An Intervention to Reduce Osteoarthritis Pain Disparities | VA HSR&D | \$422,421 | 20% |

| Years Inclusive | Grant and/or Contract Number and Title | Source | Annual Direct Costs | % Effort |
|------------------------|---|---------------|----------------------------|-----------------|
| 2016-2019 | NRI 15-150 Effects of a Mindfulness Intervention Delivered within Diabetes Education on Diabetes-related Outcomes in Military Veterans | VA HSR&D | \$250,000 | 20% |
| 2016-2018 | XVA 72-910 Substance Use Disorders in Veterans with Chronic Liver Disease | VA VISN 4 | \$50,000 | 5% |
| 2016-2017 | Prescription Opioid Use in Veterans with Chronic Liver Disease | VA CHERP | \$25,000 | 5% |
| 2016-2018 | XVA 72-909 Improving the Perioperative Care of Frail Veterans Considering Elective Surgery | VA VISN 4 | \$49,999 | 8.5% |
| 2017 | I21 HX-002345 Pilot Testing Prehabilitation Services Aimed at Improving Outcomes of Frail Veterans Following Major Abdominal Surgery | VA HSR&D | \$99,998 | 6.25% |

b. Invited Lectureships and Major Seminars Related to Your Research

| Date | Title of Presentation | Venue |
|-------------|---|---|
| 1996 | Iterative Allocation of Person-Years in Occupational Mortality Studies | The Biometric Society ENAR Spring Meeting |
| 2000 | A Simulation Study for Allocating Partially Classified Person-Time | International Society for Environmental Epidemiology Annual meeting |
| 2000 | Mortality Among Residents of the Three Mile Island Accident Area: 1979-1995 | International Society for Environmental Epidemiology Annual meeting |

| Date | Title of Presentation | Venue |
|-------------|--|--|
| 2003 | OCMAP-Plus for Windows | British Occupational Hygiene Society Annual Meeting |
| 2005 | Mortality Patterns among Workers Exposed to Chloroprene and Other Substances | American Industrial Hygiene Association Annual Meeting |
| 2005 | OCMAP-Plus for Windows | GlaxoSmithKline, Invited Speaker |
| 2005 | OCMAP-Plus for Windows | International Epidemiology Institute, Invited Speaker |
| 2005 | OCMAP-Plus for Windows | Dow Chemical Corporation, Invited Speaker |
| 2006 | OCMAP-Plus for Windows | NIOSH, Invited Speaker |
| 2008 | A Study of Cancer Mortality Rates in High Altitude Counties of the United States | Dean's Junior Faculty Seminar Series |
| 2010 | Time-Dependent Measures of Drug Exposures using Pharmacy Claims: Applying Occupational Epidemiology Methods to Pharmacovigilance | GlaxoSmithKline, Invited Speaker for EpiForum |
| 2013 | Time-dependent measures in a benefit-risk assessment of drug exposure using pharmacy claims | Non-Clinical Biostatistics Annual Meeting, Villanova, University |
| 2017 | Biostatistics: Using Data to Improve Health. | Slippery Rock University, Department of Mathematics |

c. Other Research and Training Activities

| Date | Position | Description of Activity |
|-------------|-------------------------|---|
| 1994-1996 | Project Biostatistician | Continuation and Expansion of the Mortality Surveillance Program for the US Man-Made Mineral Fiber Industry," Sponsor: North American Insulation Manufacturer's Association |
| 1996-1998 | Project Biostatistician | <i>De Novo</i> Non-Lymphoid Malignancies Following Liver Transplantation Under Tacrolimus |

| Date | Position | Description of Activity |
|-------------|-------------------------|---|
| 1996-2001 | Project Biostatistician | Long-Term Follow-Up of the Three Mile Island Population |
| 1997-1999 | Project Biostatistician | Children's Hospital, Department of Otolaryngology |

PUBLICATIONS

1. Refereed Articles

1. Ellis GL, Delaney J, DeHart DA, **OWENS AD**. The efficacy of Metoclopramide in the treatment of migraine headache. *Ann Emer Med* 1993; 22:191-195.
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101. Broyles LM, Wieland ME, Confer AL, DiNardo MM, Kraemer KL, Hanusa BH, **YOUK AO**, Gordon AG, Sevick MA. Alcohol brief intervention for hospitalized Veterans with hazardous drinking: Protocol for a 3-arm randomized controlled efficacy trial. *Addiction Science & Clinical Practice*, 2015; 10(1):13.
102. **Balmert L, **YOUK AO**, Woolley S, Talbott EO, Buchanich JM. Heart Disease Mortality in Appalachian Coal Mining Counties. *SM Journal of Public Health and Epidemiology*, 2015.
103. Szigethy E, **YOUK AO**, Gonzalez-Heydrich J, Bujoreanu SI, Weisz J, Fairclough D, Ducharme P, Jones N, Lotrich F, Keljo D, Srinath A, Bousvaros A, Kupfer D, DeMaso DR. Effect of 2 Psychotherapies on Depression and Disease Activity in Pediatric Crohn's Disease. *Inflamm Bowel Dis*, 2015; 21(6):1321-8.
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106. **Balmert LC, **YOUK AO**, Woolley SM, Talbott EO, Buchanich JM. Respiratory System Cancer, Chronic Obstructive Pulmonary Disease, and Non-Malignant Respiratory Disease Mortality in Appalachian Coal Mining and Non-Coal Mining Counties. *SME Transactions*, 2015.
107. **Buchanich JM, Talbott EO, Balmert LC, Woolley SM, **YOUK AO**. Disparities in Diabetes Mellitus Mortality Rates in Coal Mining and Non-Coal Mining Areas of Appalachia. *SME Transactions*, 2015.

108. ****Woolley SM, YOUK AO**, Bear TS, **Balmert LC**, Talbott EO, Buchanich JM. Impact of Coal Mining on Self-Rated Health among Appalachian Residents. *Journal of Environmental and Public Health*. 2015;2015:501837. doi:10.1155/2015/501837.
109. *****Kasckow J, YOUK A**, Anderson S, Dew MA, Butters MA, Marron M, Begley A, Szanto K, Aombrovski, Mulsant B, Lenze E, Reynolds CF. Trajectories of Suicidal Ideation in Depressed Older Adults Undergoing Antidepressant Treatment. *J Psychiatr Res*. 2016; 73(2):96-101.
110. ***Zhao Q**, Zmuda JM, Kuipers AL, Jonnalagadda P, Bunker CH, Patrick AL, **YOUK AO**, Miljkovic I. Greater Skeletal Muscle Fat Infiltration is associated with Higher All-Cause Mortality among Men of African Ancestry. *Age and Ageing*. 2016; 45(4):529-34.
111. Rogal SS, Arnold RA, Chapko MK, Hanusa BV, **YOUK A**, Switzer GE, Sevick MA, Bayliss NK, Zook CL, Chidi A, Obrosky DS, and Zickmund SL. The Patient-Provider Relationship is Associated with Hepatitis C Treatment Eligibility: A Prospective Mixed-Methods Cohort Study. *PlosOne*, 2016; 11(2):e0148596.
112. Keerthy D, **YOUK AO**, Srinath A, Malas N, Holland J, Bujoreanu S, Keljo D, Bousvaros A, Demaso D, Szigethy E. Effect of Psychotherapy on Healthcare Utilization in Children with Inflammatory Bowel Disease and Depression. *JPGN* 2016; 63(6):658-664.
113. *****Ye L, YOUK AO**, Sereika, SM, Anderson SJ, Burke LE. A Three-step Estimation Procedure Using Local Polynomial Smoothing for Inconsistently Sampled Longitudinal Data. *Stat Med*, 2016; 35(20):3613-22.
114. ***Chinman M, McCarthy S, Mitchell-Miland C, Daniels K, YOUK A, Edelen M**. Early stages of development of a Peer Specialist fidelity measure. *Psychiatric Rehabilitation Journal* 2016; 39(3):256-65.
115. Al Hashash J, Ramos-Rivers C, **YOUK A**, Chiu W, Duff K, Binion DG, Vachon A, Regueiro M, Benhayon D, Dunn MA, Szigethy E. Quality of Sleep and Coexistent Psychopathology Have Significant Impact on Fatigue Burden in Patients with Inflammatory Bowel Disease. *Journal of Clinical Gastroenterology* 2016. In press. DOI: 10.1097/MCG.0000000000000729
116. Bromberger JT, Kravitz HM, **YOUK A**, Schott LL, Joffe H. Patterns of depressive disorders across 13 years and their determinants among midlife women: SWAN mental health study. *Journal of Affective Disorders*. 2016; 206:31-40.
117. ***Agimi Y**, Albert S, **YOUK A**, Documet P, Steiner C. Mandatory Physician Reporting of At Risk Drivers: The Older Driver Example. *The Gerontologist* 2017;1-10.
118. ***Piper K, YOUK A**, James E, Kumar S. Paid Sick Days and Stay-at-Home Behavior for Influenza. *PLOS One* 2017; 12(2):e0170698.
119. ***Colvin A**, Richardson GA, Cyranowski JM, **YOUK A**, Bromberger JT. The Role of Family History of Depression and the Menopausal Transition in the Development of Major Depression in Midlife Women: Study of Women's Health Across the Nation Mental Health Study (SWAN MHS). *Depression & Anxiety*. In press, 2017.

120. Hausmann LRM, **YOUK A**, Kwoh CK, Ibrahim SA, Hannon MJ, Weiner DK, Gallagher RM, Parks A. Testing a Positive Psychological Intervention for Osteoarthritis. Pain Medicine. In press, 2017.

- * co-authored with student
- ** co-authored with Biostatistics student
- *** co-authored with Biostatistics advisee
- **** co-authored with pediatric fellow

2. Books and Book Chapters

None

3. Published Proceedings

1. Stone RA, Marsh GM, **OWENS AD**, Smith TJ. Propagation of errors using retrospective exposure estimates in the Cox model. The 24th International Congress on Occupational Health, Nice, France; 1993.
2. Stone RA, Marsh GM, **YOUK AO**, Quinn MM, Smith TJ. Retrospective estimation of airbourne fiber exposure: statistical aspects. American Statistical Association, 1994 Proceedings of the Section on Epidemiology, 1994;127-132.
3. Marsh GM, Stone RA, **YOUK AO**, Smith TJ. Comments on IARC 1990 Follow-Up of European MMVF Worker Study. Epidemiology, 1998; 9:218.

4. Invited Articles

None

5. Review Articles

None

6. Published Abstracts

1. Marsh G, Stone R, **OWENS A**, Henderson V, Smith T, Quinn M. A descriptive analysis of the new fiber and co-exposure data for the U.S. cohort study of man-made vitreous fiber production workers. The 24th International Congress on Occupational Health, Nice, France; 1993.
2. Stone RA, Marsh GM, **OWENS AD**, Smith TJ, Quinn MM. Statistical estimation of fiber exposures assigned to unmeasured jobs. I.A.R.C. Conference on Retrospective Assessment of Occupational Exposures in Epidemiology, Lyon, France; 1994.
3. Marsh GM, Stone RA, **YOUK AO**, Henderson VL, Smith TJ, Quinn MM. 1989 update of the U.S. cohort mortality study of rock and slag wool workers. Symposium on the Health Effects of Fibrous Materials Used in Industry, Sydney, Australia; 1995.
4. Stone RA, Marsh GM, **YOUK AO**, Enterline PE. Modelling the combined effects of arsenic exposure and cigarette smoking on respiratory cancer risk for copper smelter workers: Methodological Issues. Epidemiology 1995; 6:S114.

5. Lee D, Hill JS, **YOUK AO**, Casselbrant MM. Post-tympanostomy Tube Otorrhea and Topical Antibiotic Use: A Meta Analysis. Annual Meeting of the American Academy of Otolaryngology-Head and Neck Surgery, San Antonio, Texas; 1998.
6. **YOUK AO**, Stone RA, Marsh GM. Assessing a Method for Allocating Partially Classified Person-Time: A Simulation Study. *Annals of Epidemiology* 1999; 9:458.
7. Marsh GM, **YOUK AO**, Stone RA, Buchanich JM, Gula MJ, Smith TJ, Churg A, Colby T. Does fiberglass pose a respiratory system cancer risk in humans? Latest findings from the US cohort and nested case-control studies. *Annals of Occupational Hygiene, Inhaled Particles IX Supplement*.
8. Bromberger JT, **YOUK AO**, Matthews KA. Do low socioeconomic indicators, social resources, and stress have the same association with mental health and functioning within different ethnic groups? 131st Annual Meeting of the American Public Health Association, San Francisco, CA; 2003.
9. Marsh GM, **YOUK AO**, Buchanich JM, Cassidy LD, Lucas LJ, Esmen NA, Gathuru I. Formaldehyde Exposure and Respiratory Tract Cancer among Chemical Plant Workers: An Updated Cohort Study and New Nested Case-Control Study. *Annals of Occupational Hygiene* 2003.
10. Marsh GM, **YOUK AO**, Buchanich JM, Esmen NA. Mortality Patterns among Pharmaceutical Production Workers at One U.S. Site. *Annals of Occupational Hygiene*, 2004.
11. Marsh GM, **YOUK AO**, Buchanich JM, Esmen NA. Mortality Patterns among Workers Exposed to Chloroprene and Other Substances. *Annals of Occupational Hygiene* 2005.
12. Marsh GM, Buchanich JM, Lieberman FS, **YOUK AO**, Bornemann Z, Esmen NE, Lacey SE, Kennedy K, Hancock R. An epidemiological study of brain cancer mortality and incidence among a cohort of jet engine manufacturing workers. *Society of Neuro-Oncology 2006 Meeting Proceedings*.
13. Marsh GM, Buchanich JM, Lieberman FS, **YOUK AO**, Bornemann Z, Esmen NE, Lacey SE, Kennedy K, Hancock R. An epidemiological study of brain cancer mortality and incidence among a cohort of jet engine manufacturing workers: Year 5 Study Update. *Society of Neuro-Oncology 2007 Meeting Proceedings*.
14. Bromberger JT, Kravitz H, Cyranowski J, Brown C, **YOUK A**, Chang Y, and Matthews KA. Does the risk for major depression increase during the menopausal transition? 3rd International Congress on Women's Mental Health. *Depression during the Menopausal Transition Symposium: A critical review of risk factors and evidence-based treatment strategies*, Melbourne, Australia, 2008.
15. Lacey S, Horvatin S, Alcazar T, Kennedy K, Hancock R, Esmen N, Buchanich J, **YOUK A**, Cunningham M, Marsh G, Myers D. Examination of Worker Ability to Recall Personal Occupational History. *Annals of Occupational Hygiene* 2008.
16. Lacey S, Kennedy K, Hancock R, Esmen N, Buchanich J, **YOUK A**, Cunningham M, Marsh G, Lieberman F. Exposure reconstruction to inform an epidemiologic study of brain cancer mortality among a cohort of jet engine manufacturing workers: an update on findings to date. *Society of Neuro-Oncology 2008 Meeting Proceedings*.

17. Marsh G, Buchanich J, **YOUK A**, Cunningham M, Lieberman F, Kennedy K, Lacey S, Hancock R, Esmen N. An epidemiological study of brain cancer mortality and incidence among a cohort of jet engine manufacturing workers: total and cause specific mortality with emphasis on CNS neoplasms. Society of Neuro-Oncology 2008 Meeting Proceedings.
18. Kennedy K, Esmen N, Buchanich J, Lacey S, Marsh G, **YOUK A**, Hancock R. Occupational hygiene considerations in a large retrospective epidemiology study: job dictionary. *Annals of Occupational Hygiene* 2009.
19. Lacey S, Gundi V, Kennedy K, Hancock R, Esmen N, Buchanich J, **YOUK A**, Marsh G. Application of GIS in occupational exposure reconstruction. *Annals of Occupational Hygiene* 2009.
20. Buchanich JM, Marsh GM, Esmen NA, **YOUK AO**, Kennedy KJ. Cerebrovascular Mortality among Arsenic-Exposed Copper Smelter Workers. *Annals of Occupational Hygiene* 2009.
21. Smith H, Markovic N, Danielson M, Talbot E, Matthews A, Kalro B, **YOUK A**. Do rates of Polycystic Ovary Syndrome (PCOS) vary among Heterosexual and Lesbian Women? APHA 2009 Meeting Proceedings.
22. Smith H, Markovic N, Danielson M, Talbot E, Matthews A, **YOUK A**, Larkby C, Hughes T. Obesity, Sexual Abuse and Sexual Orientation: Women Enrolled in the ESTHER Study. APHA 2009 Meeting Proceedings.
23. Smith H, Markovic N, Danielson M, De Genna N, Matthews A, Hughes T, Larkby C, **YOUK A**. Sexual Abuse and Substance Use Among Heterosexual and Lesbian Women: Women Enrolled in the ESTHER Study. APHA 2009 Meeting Proceedings.
24. Watson NL, **YOUK AO**, Sutton-Tyrrell K, Boudreau RM, Simonsick EM, Bauer DC, Johnson KC, Newman AB. Longitudinal Relationships of Subclinical Cardiovascular Disease with Physical Function in Older Adults. Oral presentation: The Gerontological Society of America Meeting, Atlanta, Ga., November 2009. *Gerontologist*. 2009;49:47.
25. Buchanich JM, **YOUK AO**, Marsh GM, Bornemann Z, Lacey SE, Kennedy KJ, Esmen NA. "Methodological Issues in a Retrospective Cancer Incidence Study", *American Journal of Epidemiology*. SER Annual Meeting Proceedings, 2009.
26. Buchanich JM, **YOUK AO**, Marsh GM, Cunningham, M, Lieberman FS, Kennedy KJ, Esmen NA, Lacey SE, Hancock R. Methodological Issues with Non-Malignant CNS Incidence Analyses. *Neuro-Oncology*. Society of Neuro-Oncology 2009 Meeting Proceedings.
27. Marsh G, Buchanich J, **YOUK A**, Cunningham M, Lieberman F, Kennedy K, Esmen N, Lacey S, Hancock R. General Methodology for Malignant CNS Incidence Analyses. *Neuro-Oncology*. Society of Neuro-Oncology 2009 Meeting Proceedings.

28. Kennedy K, Lacey S, Hancock R, Esmen N, Buchanich J, **YOUK A**, Cunningham M, Marsh G, Lieberman F. Exposure reconstruction for epidemiologic studies of brain cancer mortality and incidence among a cohort of jet engine manufacturing workers: an update. *Neuro-Oncology*. Society of Neuro-Oncology 2009 Meeting Proceedings.
29. **YOUK AO**, Buchanich JM, Marsh GM, Fryzek J, Cunningham M. An Ecological Study of Cancer Mortality Rates in High Altitude Counties of the United States. *American Journal of Epidemiology*. SER Annual Meeting, Seattle, WA, June 2010.
30. Buchanich JM, **YOUK AO**, Marsh GM, Bornemann Z, Lacey SE, Kennedy KJ, Esmen NA'. A Comparison of Central Nervous System Cancer Identification Using Mortality and Incidence Data. *American Journal of Epidemiology*. SER Annual Meeting, June 2010.
31. Hausmann LR, **YOUK AO**, Parks A. Reduction of Bodily Pain in Response to an Online Positive Activities Intervention. *Rapid Communications*. Society of Behavioral Medicine Annual Meeting, March 2013.
32. Broyles LM, Wieland M, Confer A, **YOUK A**, Gordon A. Holes in the pipeline: addressing recruitment challenges for an alcohol brief intervention trial in the acute care setting. *Subst Abuse*. 2014;35(2):208.
33. Ramos Rivers CM, Binion DG, **YOUK A**, Regueiro M, Dunn MA, Hashash JG, Schwartz M, Baidoo L, Barrie A, Swoger JM, Szigethy E. Su1390 The Longitudinal Impact of Serotonin Reuptake Inhibitors on Quality of Life and Disease Activity in Adults With Inflammatory Bowel Disease (IBD). *Gastroenterology* 2014; 146(5):S-456.
34. Kaufman LC, Doamekpor F, **YOUK A**, Elliott W, Hashash JG, Regueiro M, Szigethy E. Su1107 Impact of Integrated Behavioral Health Model on Clinical Outcomes and Medical Utilization in Adults With Inflammatory Bowel Disease. *Gastroenterology* 2014; 146(5):S-377.
35. Szigethy E, Mcauliff K, Strassburger M, Hashash J; Vachon A, Rode NM, Keljo DJ, Youk AO, Regueiro M, Binion D, Lotrich F, Germain A, Hall M. Brief Behavioral Therapy and Bupropion for Sleep and Fatigue in Adolescents and Young Adults with Inflammatory Bowel Disease. *JAACAP* 2016; 55(10):S-210.

7. Presentations

1. "Iterative Allocation of Person-Years in Occupational Mortality Studies, " The Biometric Society ENAR Spring Meeting, Richmond, VA, 1996.
2. "Assessing the Iterative Allocation Algorithm: A Simulation Study." Poster Session, Annual Banquet, American Statistical Association, Pittsburgh Chapter, Pittsburgh, PA, 1997.
3. "Assessing a Method for Allocating Partially Classified Person-Time: A Simulation Study." Poster Session, American College of Epidemiology 1999 Annual Meeting, Bethesda, MD, 1999.

4. "A Simulation Study for Allocating Partially Classified Person-Time." International Society for Environmental Epidemiology 2000 meeting, Buffalo, NY, 2000.
5. "Mortality Among Residents of the Three Mile Island Accident Area: 1979-1995." International Society for Environmental Epidemiology 2000 meeting, Buffalo, NY, 2000.
6. "OCMAP-Plus for Windows." British Occupational Hygiene Society 2003 Annual Meeting, London, England, 2003.
7. "Mortality Patterns among Workers Exposed to Chloroprene and Other Substances." American Industrial Hygiene Association 2005 Annual Meeting, Anaheim, CA, 2005.
8. "A Study of Cancer Mortality Rates in High Altitude Counties of the United States" Dean's Junior Faculty Seminar Series, 2008.
9. "An Ecological Study of Cancer Mortality Rates in High Altitude Counties of the United States." SER Annual Meeting, Seattle, WA, 2010.
10. "Time-dependent measures in a benefit-risk assessment of drug exposure using pharmacy claims." Non-Clinical Biostatistics Annual Meeting, Villanova, PA, 2013.
11. "Biostatistics: Using Data to Improve Health." Slippery Rock University, Math Department, Slippery Rock, PA, 2017.

8. Non-Print Media

1. None

9. Other Publications

1. Marsh GM, Gula MJ, **OWENS AD**. Worker Notification Profile: Non-asbestiform talc miners and millers. NIOSH Technical report, June 1992.
2. Marsh GM, Stone RA, **OWENS AD**. Analysis of TCE registry data. ATSDR Technical report, October 1992.
3. Marsh GM, Stone RA, **YOUK AO**, Henderson VL, Schall LC, Wayne LA, Lee KY. NAIMA mortality surveillance program for the U.S. cohort of fiberglass, rock wool and slag wool workers: mortality patterns among rock wool and slag wool workers-1989 update. Final report to the North American Insulation Manufacturers Association, January 1996.
4. Marsh GM, **YOUK AO**, Stone RA. A Reanalysis of the NCI-NIOSH Mortality Study of Industrial Workers Exposed to Acrylonitrile. Report submitted to the Acrylonitrile (AN) Group, February 1998.
5. Marsh GM, **YOUK AO**, Buchanich JM, Esmen NA. Mortality Patterns among Employees of the Eli Lilly & Co., Clinton, IN Plant. Final Report submitted to Eli Lilly & Co., October 1998.
6. Talbott EO, **YOUK AO**, McHugh K, Engberg RA, Murphy BP. Long-term follow-up of the Three Mile Island Population. Progress Report submitted to the Three Mile Island Public Health Fund, May 1999.

7. Talbott EO, Zhang A, **YOUK AO**, McHugh-Pemu KP, Zborowski JV, Re: Collision of Evidence and Assumptions: TMI Deja View. Response to a Letter to the Editor. EHP, 2001; 109(1):498-500.
8. Talbott EO, **YOUK AO**, Pemu-McHugh K. Long-term follow-up of the Three Mile Island Population. Final Report submitted to the Three Mile Island Public Health Fund, July 2001.
9. Marsh GM, **YOUK AO**, Buchanich JM: Cohort Mortality of the Wallingford, Connecticut Plant. Additional Investigations of Pharyngeal Cancers. Technical Report Submitted to Cytec Industries, Inc., March 2001.
10. Marsh GM, Gula MJ, **YOUK AO**, Schall LC: Bladder Cancer among Employees of the BP Chemicals Lima Ohio Facility. Technical Report Submitted to BP Chemicals, May 2001.
11. Marsh GM, **YOUK AO**, Buchanich JM: Cohort Mortality Study of Workers of the GenCorp Lawrence, Massachusetts Plastics Producing Plant. Technical Report Submitted to TERRA, Inc., May 2001.
12. Marsh GM, **YOUK AO**, Stone RA, Buchanich JM, Gula MJ. Re: Historical Cohort Study of US Man-Made Vitreous Fiber Production Workers. Response to a Letter to the Editor. J Occ Env Med 2002; 44(44)107-108.
13. Marsh GM, Buchanich JM, **YOUK AO**. Mortality Surveillance and Epidemiologic Support Program for Owens Corning, 2002 Demonstration Report. Technical Report Submitted to Owens Corning, December 2002.
14. Marsh GM, **YOUK AO**, Buchanich JM. Mortality Surveillance and Epidemiologic Support Program for Solutia, Inc. Report for a 13-Plant Aggregate. Technical Report Submitted to Solutia, Inc., January 2003.
15. Marsh GM, Buchanich JM, **YOUK AO**. Mortality Surveillance and Epidemiologic Support Program for Owens Corning, 2004 Project Report. Technical Report Submitted to Owens Corning, December 2004.
16. Marsh GM, Buchanich JM, **YOUK AO**. Mortality Surveillance and Epidemiologic Support Program for Owens Corning, 2005 Project Report. Technical Report Submitted to Owens Corning, December 2005.
17. Marsh GM, **YOUK AO**, Morefeld P. Mis-Specified and Non-Robust Mortality Risk Models for Nasopharyngeal Cancer in the National Cancer Institute Formaldehyde Worker Cohort Study. Technical Report Submitted to the European Chemical Industry Council (CEFIC), February 2006.
18. Marsh GM, Buchanich JM, **YOUK AO**. Mortality Patterns Among a Cohort of US Petroleum Refinery Workers: Updated Follow-Up. Technical Report Submitted to BP, April 2006.
19. Marsh GM, Esmen NA, Buchanich JM, **YOUK AO**. Copperhill Cohort Mortality Study Update - Final Report - Phase IV. Technical Report Submitted to NIOSH, April 2006.
20. Marsh GM, Buchanich JM, **YOUK AO**. Mortality Surveillance and Epidemiologic Support Program for Owens Corning, 2006 Project Report. Technical Report Submitted to Owens Corning, December 2006.

21. Marsh GM, **YOUK AO**, Buchanich JM. BP Whiting Refinery Epidemiology Study: Final Report. Technical Report Submitted to BP, July 2006.
22. Marsh GM, Esmen NA, Buchanich JM, **YOUK AO**: Copperhill Cohort Mortality Study Update: Final Report (Phase IV). Technical Report Submitted to National Institute of Occupational Safety and Health (NIOSH), March 2007.
23. Marsh GM, Buchanich JM, **YOUK AO**. Mortality Surveillance and Epidemiologic Support Program for Owens Corning, 2007 Progress Report. Technical Report Submitted to Owens Corning, December 2007.
24. **YOUK AO**, Cunningham M. Study of Mortality Rates in High Altitude Counties in the United States. Progress Report Submitted to Amgen, Inc., March 2008.
25. Marsh GM, Buchanich JM, **YOUK AO**. Mortality Surveillance and Epidemiologic Support Program for Owens Corning: 2008 Project Report. Technical Report Submitted to Owens Corning, December 2008.
26. Marsh GM, **YOUK AO**. Mortality Patterns among Italian Asbestos Cement Workers in the Eternit Casale Plant during the “Swiss Period” (1974-1986). Final Report submitted to Schellenberg Wittmer, February 2009.
27. Marsh GM, Buchanich JM, **YOUK AO**. National Toxicology Program Draft Background Document on Glass Wool Fibers. Technical Report for presentation at the NTP Report on Carcinogens, Expert Panel Meeting, May 2009.
28. Marsh GM, **YOUK AO**, Buchanich JM. Comments on EPA’s Draft Toxicological Review of Chloroprene Non-Cancer and Cancer Risk Assessments Developed for IRIS. Submitted for IRIS Expert Panel Meeting, November 2009.
29. Esmen NA, **YOUK AO**, Marsh GM. Investigation of Faulty Relationships Between Real and Surrogate Exposures. Final Report submitted to Mining Awareness Resource Group (MARG), February 2012.
30. Marsh GM, Buchanich JM, **YOUK AO**, Downing S. Mortality Surveillance and Epidemiologic Support Program for Owens Corning: 2012 Project Report. Technical Report Submitted to Owens Corning, December 2012.
31. Marsh GM, Youk AO, Roggli VL. Letter to the editor in response to Finkelstein et al. *Inhalation toxicology*, 2012;24(2):141-2.
32. Buchanich, JM; **YOUK, AO**; Talbott, EO; Potter, AN; Marshall, LP. ARIES Technical Bulletin No. 2: MORTALITY RATES IN APPALACHIAN COAL MINING COUNTIES, April 2013.
33. Benhayon D, **YOUK AO**, McCarthy FN, Davis S, Keljo DJ, Bousvaros A, Fairclough D, Kupfer D, Buysse DJ, Szigethy EM. Response to: Relationship Between Sleep and Disease Activity in Pediatric Depressed Patients with Crohn’s Disease. *JPGN* 2014, 58(5):51.
34. Buchanich, JM, Balmert LC; **YOUK AO**, Wooley SM, Talbott EO. Response to: The Ecological Fallacy May Have Severely Biased the Findings. *JOEM* 2015, 57(2): pgs e13–e14.

3. Service (Professionally Related)

a. University/Institute of Higher Learning

| Years | Committee | Position |
|--------------|---|-----------------------------------|
| 1993 | University of Pittsburgh, Graduate School of Public Health, Information Booth at the American Public Health Association Annual Meeting, San Francisco, CA | Student Representative (selected) |
| 1993 | Student committee for Graduate School of Public Health Re-Accreditation | Member |
| 1995 | Statistics Education through Quantitative Literacy (SEQual) Workshop, Slippery Rock University | Participant |
| 1996 | Statistics Education through Quantitative Literacy (SEQual) Workshop, Indiana University of Pennsylvania | Participant |
| 1997 | Committee for the Distance Education Certificate Program | Member |
| 1998 | Health Sciences Library System Advisory Committee | Member |
| 1998 | Local Arrangements Committee, The International Biometric Society ENAR Spring Meetings | Member |
| 1998 | 1999 Association of Schools of Public Health/Center for Disease Control Public Health System Fellowship Program | Reviewer |
| 2000-01 | GSPH Capstone Course (Roundtable Case Series Lecture Class) Committee | Member |
| 2001-2011 | Departmental Ph.D. Applied Qualifying Exam Committee | Member |
| 2004 | GSPH Dean's Day | Judge |
| 2005 | Departmental Committee to Evaluate Master's Comprehensive Examination | Member |
| 2006-2012 | Departmental Committee for Student Events | Member |
| 2006-07 | Departmental Committee to Evaluate Biostatistics Consulting Course | Member |
| 2006-07 | Departmental Committee to Evaluate Master's Program | Member |
| 2007-date | ASPH/CDC/ATSDR Fellowship/Internship Programs | Reviewer |
| 2007-2012 | Departmental MS/MPH Program Committee | Member |
| 2007-2012 | Departmental MS/MPH Exam Committee | Chair |
| 2008 | Accepted Applicants Day Committee | Member |
| 2008 | Dean's Day Delta Omega Poster Competition | Judge |
| 2009-2011 | Departmental Committee to Evaluate Ph.D. Program | Member |
| 2010-date | Dean's Day Poster Competition | Judge |

| Years | Committee | Position |
|--------------|---|------------------|
| 2011-date | Departmental Ph.D. Qualifying Exam Committee | Member |
| 2011-2015 | Departmental Ph.D. Applied Qualifying Exam Committee | Chair |
| 2015-date | Departmental Ph.D. Applied Qualifying Exam Committee | Member |
| 2012-date | Departmental Social Events Committee | Member |
| 2012-date | Departmental MS/MPH Program Committee | Chair |
| 2011-date | University of Pittsburgh, Committee for Women in Medicine and Science | Member |
| 2011-2014 | GSPH, EPCC | Alternate Member |
| 2012-date | Departmental MS/MPH Exam Committee | Member/Grader |
| 2013 | Departmental, Curriculum Committee | Member |
| 2014-date | GSPH, MPH Program Committee | Member |
| 2016-date | GSPH, Faculty Promotions and Tenure Committee (FAPTC) | Member |
| 2017-date | Epidemiology Department, PhD Preliminary Exam Committee, Biostatistics subcommittee | Member |

b. Editorial Boards, Editorships

| Date | Position | Organization |
|-------------|-----------------|------------------------------|
| 2011-2014 | Editor | The Scientific World Journal |
| 2014 | Editor | Advances in Medicine Journal |

c. Manuscript and Other Document/Publication Review

| Dates | Journal Title |
|--------------|--|
| 1998-02 | Cleft Palate-Craniofacial Journal |
| 1999-date | Environmental Health Perspectives |
| 1998 | Occupational and Environmental Medicine |
| 2000 | Cancer Detection and Prevention |
| 2000 | International Journal of Epidemiology |
| 2000 | Agency for Toxic Substances and Disease Registry |
| 2004 | European Journal of Epidemiology |
| 2006 | Circulation |
| 2008 | American Journal of Epidemiology |
| 2009 | Environmental Health Perspectives |

| Dates | Journal Title |
|--------------|-------------------------|
| 2009 | Circulation |
| 2010 | Circulation |
| 2011 | Circulation |
| 2012 | Circulation |
| 2013 | Substance Abuse |
| 2013 | Environmental Pollution |
| 2013 | Circulation |
| 2014 | Circulation |
| 2015 | Circulation |
| 2016 | Circulation |
| 2016 | Thorax |
| 2017 | PLOS One |

d. Study Sections, Review Panels, and Related Advisory Boards

| Date | Position | Organization and Nature of Activity |
|-------------|---------------------|---|
| 2009-date | Reviewer | ASPH/CDC Allan Rosenfield Global Health Fellowship Program Objective Review |
| 2014-date | Scientific Reviewer | Addressing Disparities Study Section, PCORI Merit Review |
| 2017 | Scientific Reviewer | Management of Care Transitions for Emerging Adults with Sickle Cell Disease, special PCORI Merit review panel |

e. Leadership in Professional Organizations and Honorary Societies

| Date | Position | Organization |
|-------------|-------------------------------------|---|
| 1999 | National Delegate | Delta Omega National Honor Society in Public Health |
| 2004 | Chair, Local Arrangements Committee | The International Biometric Society, ENAR Spring Meetings |
| 2004-2005 | President | Delta Omega National Honor Society in Public Health |

f. Service to Governmental and Other Public Organizations

| Date | Position | Type of Service and/or Agency |
|-------------|-----------------|--------------------------------------|
| None | | |

g. Consultantships

| Date | Name of Statistical Consultantship |
|-------------|--|
| 1991-92 | Department of Obstetrics and Gynecology, Magee Women's Hospital, Pittsburgh, PA. |
| 1992 | Agency for Toxic Substances and Disease Registry (ATSDR), Atlanta, GA. |
| 1995 | Atlantic Ritchfield Company (ARCO), Los Angeles, CA. |
| 1996-01 | Cytec Industries, Inc, West Paterson, NJ. |
| 1996 | Western Pennsylvania Hospital, Pittsburgh PA. |
| 1996 | Environmental Health Strategies, Inc., Menlo Park, CA. |
| 1997-98 | Chemical Industry Institute of Toxicology, Research Triangle Park, NC. |
| 1997-06 | BP-AMOCO, Chicago, IL. |
| 1997-98 | Showa Denko America, Inc., New York, NY. |
| 1998-07 | National Academy of Sciences, Washington, DC. |
| 1999-01 | TERRA, Inc., Tallahassee, FL. |
| 1999-02 | DOW Chemical/ DOW Corning Company, Midland, MI. |
| 1999-01 | State of New Jersey, Department of Health and Senior Services |
| 2001-04 | Gateway Health Plan, Pittsburgh, PA. |
| 2001-06 | Merck, Inc., Rahway, NJ. |
| 2002-06 | Certaineed, Valley Forge, PA. |
| 2004-06 | FETEG, Washington, DC. |
| 2005-06 | DOW Corning Company, Midland, MI |
| 2006 | CEFIC, Brussels, Belgium. |
| 2007 | Global Aim Health, Washington, DC. |
| 2008-09 | Rohm&Haas, Springhouse, PA. |
| 2008-11 | Schellenberg Wittmer, Geneva, Switzerland. |
| 2009 | NAIMA, Alexandria, VA. |
| 2009 | DuPont, Wilmington, DE. |
| 2009-11 | Davies, McFarland & Carroll, Pittsburgh, PA. |
| 2010-11 | Kirkland & Ellis, Chicago, IL. |