

MONICA M. VASQUEZ

University of Arizona, Mel and Enid Zuckerman College of Public Health

mmv@email.arizona.edu

EDUCATION

Ph.D. in Biostatistics Minor in Epidemiology University of Arizona	2007-Expected 2017
M.P.H. with Concentration in Biostatistics University of Arizona	2005-2007
M.Ed. in Teaching and Teacher Education with Concentration in Mathematics University of Arizona	2003-2004
B.S. in Mathematics with Concentration in Probability and Statistics Minor in Molecular and Cellular Biology University of Arizona	1999-2003

PUBLICATIONS

1. Chen Y, **Vasquez MM**, Zhu L, Lizarraga RE, Krutzsch M, Einspahr J, Alberts DA, Di YP, Martinez FD, Guerra S. Effects of Retinoids on Augmentation of Club Cell Secretory Protein. *The American Journal of Respiratory and Critical Care Medicine*, 2017, In Press.
2. **Vasquez MM**, Zhou M, Hu C, Martinez FD, Guerra S. Low Lung Function in Young Adult Life is Associated with Early Mortality. *The American Journal of Respiratory and Critical Care Medicine*, 2017, In Press.
3. **Vasquez MM**, McClure LA, Sherrill DL, Patel S, Krishnan J, Guerra S, Parthasarathy S. Positive Airway Pressure Therapies and Hospitalization in Chronic Obstructive Pulmonary Disease. *The American Journal of Medicine*, 2017, In Press.
4. **Vasquez MM**, Hu C, Roe DR, Chen Z, Halonen M, Guerra S. Least Absolute Shrinkage and Selection Operator Type Methods for the Identification of Serum Biomarkers of Overweight and Obesity: Simulation and Application. *BMC Medical Research Methodology*, 2016, 16(1):154.
5. DeVries A, Wlasiuk G, Miller SJ, Bosco A, Stern DA, Lohman IC, Rothers J, Jones AC, Nicodemus-Johnson J, **Vasquez MM**, Curtin JA, Simpson A, Custovic A, Jackson DJ, Gern JE, Lemanske RF, Guerra S, Wright AL, Ober C, Halonen M, Vercelli D. Epigenome-wide Analysis Identifies SMAD3 Methylation at Birth as a Predictor of Asthma in Children of Asthmatic Mothers. *The Journal of Allergy and Clinical Immunology*, 2016, In Press.
6. Guerra S, **Vasquez MM**, Spangenberg A, Halonen M, Martin RJ. Club Cell Secretory Protein in Serum and Bronchoalveolar Lavage of Patients with Asthma. *The Journal of Allergy and Clinical Immunology*, 2016, 138(3): 932-934.
7. Guerra S, Halonen M, **Vasquez MM**, Spangenberg A, Stern DA, Morgan WJ, Wright AL, Lavi I, Tares L, Carsin A, Dobano C, Barreiro E, Zock J, Martinez-Moratalla J, Urrutia I, Sunyer J, Keidel D, Imboden M, Probst-Hensch N, Melen E, Wickman M, Bousquet J, Belgrave DC, Simpson A, Custovic A, Anto JM, Martinez FD. Circulating CC16 Predicts Lung Function Growth, Decline,

- and Development of COPD Across the Lifespan. *The Lancet Respiratory Medicine*, 2015, 3(8): 613-620.
8. Gerald JK, Gerald LB, **Vasquez MM**, Morgan WJ, Boehmer SJ, Lemanske RF, Mauger DT, Strunk RC, Szeffler SJ, Zeiger S, Bacharier LB, Bade E, Covar RA, Guilbert TW, Heidarian-Raissy H, Kelly HW, Malka-Reis J, Sorkness CA, Taussig L, Chinchilli VM, Martinez FM. Markers of Differential Response to Inhaled Corticosteroid Treatment among Children with Mild Persistent Asthma. *The Journal of Allergy and Clinical Immunology: In Practice*, 2015, 3(4): 338-346.
 9. Parthasarathy S, **Vasquez MM**, Halonen M, Bootzin R, Quan S, Martinez FD, Guerra SG. Persistent Insomnia is Associated with Mortality Risk. *The American Journal of Medicine*, 2015, 128(3): 268-275.e2.
 10. Huang S, **Vasquez MM**, Halonen M, Martinez FD, Guerra S. Asthma, Airflow Limitation and Mortality Risk in the General Population. *European Respiratory Journal*, 2014, 45(2): 338-346.
 11. Pugmire J*, **Vasquez MM***, Zhou M, Sherrill DL, Halonen M, Martinez FD, Guerra S. Exposure to Parental Smoking in Childhood is Associated with Persistence of Respiratory Symptoms into Young Adult Life. *The Journal of Allergy and Clinical Immunology*, 2014, 134(4): 962-965.e4.
(*) Equal Contribution
 12. Silva GE, Goodwin JL, Vana KD, **Vasquez MM**, Wilcox PG, Quan SF. Restless Legs Syndrome, Sleep, and Quality of Life among Adolescents and Young Adults. *Journal of Clinical Sleep Medicine*, 2014, 10(7): 779-786.
 13. Guerra S, **Vasquez MM**, Spangenberg A, Halonen M, Martinez FD. Serum Levels of Club (Clara) Cell Secretory Protein Predict Cancer Mortality in Adults. *The Lancet Respiratory Medicine*, 2013, 1(10): 779-785.
 14. Archbold KH, **Vasquez MM**, Goodwin JL, Quan SF. Effects of Sleep Patterns and Obesity on Increases in Blood Pressure over a 5-Year Period: Report from the Tucson Children's Assessment of Sleep Apnea Study (TuCASA). *Journal of Pediatrics*, 2012, 161(1): 26-30.
 15. Gray N, Han TL, **Vasquez MM**, Duncan B. Comparison of the GMFM-66 and the PEDI Functional Skills Mobility Domain in a Group of Chinese Children with Cerebral Palsy. *Child: Care, Health, and Development*, 2010, 37(3): 398-403.
 16. Goodwin JL, **Vasquez MM**, Silva GE, Quan SF. Incidence and Remission of Sleep Disordered Breathing and Related Symptoms in 6-17 Year Old Children- The Tucson Children's Assessment of Sleep Apnea Study (TuCASA). *Journal of Pediatrics*, 2010, 157(1): 57-61.
 17. **Vasquez MM**, Goodwin JL, Drescher A, Smith T, Quan SF. Associations of Dietary Intake and Physical Activity with Sleep Disordered Breathing in the Applied Positive Pressure Long-term Efficacy Study (APPLES). *Journal of Clinical Sleep Medicine*, 2008, 4(5): 411-418.
 18. LeVan TD, Guerra S, Klimecki W, **Vasquez MM**, Lohman IC, Martinez FD, Halonen M, Wright AL. The Impact of CD14 Polymorphisms on the Development of Soluble CD14 Levels During Infancy. *Genes and Immunity*, 2006, 7(1): 77-80.
 19. Levan TD, VonEssen S, Romberger DJ, Lambert GP, Martinez FD, **Vasquez MM**, Merchant, JA. Polymorphisms in the CD14 Gene are Associated with Pulmonary Function in Farmers. *American Journal of Critical Care Medicine*, 2005, 171(7): 773-779.

Submitted Manuscripts

20. **Vasquez MM**, Sherrill DL, LeVan TD, Morgan W, Sisson J, Guerra S. Persistent Light to Moderate Alcohol Intake and Lung Function: A Longitudinal Study.

Working Manuscripts

21. Insomnia is Associated with Risk of Hospitalization.
22. Circulating Biomarkers of Smoking and Lung Function Deficits.
23. Measurement Error Correction in the LASSO-Penalized Linear Regression Model When Only a Subset of Validation Data is Available.

POSTERS AND PRESENTATIONS

1. **Vasquez MM**, Zhou M, Imboden M, Keidel D, Gerbase MW, Probst-Hensch NM, Sherrill DL, Martinez FD, Halonen M, Guerra S. Circulating Biomarkers of Smoking and Lung Function Deficits. ATS 2016.
2. **Vasquez MM**, McClure LA, Sherrill DL, Guerra S, Parthasarathy S. Positive Airway Pressure Therapies and Hospitalization Risk in Chronic Obstructive Pulmonary Disease. ATS 2016.
3. **Vasquez MM**. CPAP Study Design and Baseline Characteristics, Late Breaking Results for the ALA-ACRC CPAP Trial. ATS 2015.
4. **Vasquez MM**, Zhou M, Hu C, Martinez FD, Guerra S. Lung Function in Young Adult Life and Mortality Risk. ATS 2015.
5. Parthasarathy S, **Vasquez MM**, Halonen M, Martinez FD, Guerra S. Insomnia is Independently Associated with Hospitalization. ATS 2015.
6. Parthasarathy S, **Vasquez MM**, Halonen M, Bootzin RR, Quan SF, Martinez FD, Guerra S. Persistent Insomnia and All Cause Mortality in a Community Based Cohort. Sleep 2014; (37) Suppl: A497.
7. Silva GE, Goodwin JL, Archbold KH, **Vasquez MM**, Quan SF. Incidence and Remission of Sleep Related Symptoms in Children and Associations with Health-Related Quality of Life: A 7-Year Follow-Up of the TuCASA Cohort. WASM 2013.
8. Goodwin JL, Silva GE, Archbold KH, **Vasquez MM**, Quan SF. Incidence and Remission of Sleep Problems in Children: A 7-year follow up of the TuCASA Cohort. Sleep 2012; (35) Suppl: A364.
9. Silva GE, Goodwin JL, **Vasquez MM**, Quan SF. Restless Leg Syndrome and Sleep Problems among Adolescents and Young Adults in the Tucson Children's Assessment of Sleep Apnea Study (TuCASA). Sleep 2012; (35) Suppl: A268.
10. Goodwin JL, **Vasquez MM**, Quan SF. Prevalence of Restless Leg Syndrome among Adolescent Children in the Tucson Children's Assessment of Sleep Apnea Study (TuCASA). Sleep 2011; (34) Suppl: A298.
11. Nair P, **Vasquez MM**, Goodwin JL, Quan SF. Incident and Prevalent Hypertension, Sleep Disordered Breathing and Obesity among Adolescent Children in the Tucson Children's Assessment of Sleep Apnea Study (TuCASA). Sleep 2010; (33) Suppl: A328.

12. Furet OA, **Vasquez MM**, Goodwin JL, Quan SF. Prevalence, Incidence, and Remission of Parasomnias Among Adolescent Children in the Tucson Children's Assessment of Sleep Apnea Study (TuCASA). *Sleep* 2010; (33) Suppl: A226.
13. Goodwin JL, **Vasquez MM**, Archbold KH, Morgan WJ, Sherrill DL, Quan SF. Predictors of Incidence and Remission of Sleep Disordered Breathing in Children: The Tucson Children's Assessment of Sleep Apnea Study. *Sleep* 2009; (32) Suppl: A88.
14. **Vasquez MM**, Goodwin JL, Drescher A, Smith T, Quan SF. Associations of Dietary Intake and Physical Activity with Sleep Disordered Breathing. *Sleep* 2007; (30) Suppl: A174.

RESEARCH EXPERIENCE

Asthma and Airway Disease Research Center, University of Arizona Biostatistician

2011-Present

- Provide statistical and data management support for a long-term population-based cohort study that collected and tracked data of 5,000+ participants for over 40 years.
- Collaboration with researchers nationally and internationally on data sharing, data analyses, collaborative publications, and grant preparation.
- Worked closely with laboratory and data managers on the measurement, quality control, and quality assurance of biological data.
- Experience in the the management, analysis, and reporting of healthcare claims data for up to 10 million records.

Asthma and Airway Disease Research Center, University of Arizona Operations Manager, Asthma Clinical Research Unit

2005-2015

- Direct management and oversight of multiple clinical research protocols that included study start up, management of study medications and materials, maintenance of regulatory and IRB documentation, creation of study source documentation and training materials.
- Supervision, monitoring, and training of study coordinators, research nurses, and students on all study related protocols and procedures.
- Maintain effective communication with principal investigators, clinicians, data coordinating centers, and industry sponsors.
- Collaboration with researchers, clinicians, and fellows on data analyses and publications.

Mel and Enid Zuckerman College of Public Health, University of Arizona

2005 - 2007

Research Fellow, Excellence in Partnership for Community Outreach, Research on Health Disparities and Training (Project EXPORT) and Graduate Research Assistant

- Received training in diabetes and substance abuse and involved with educational and community activities with the South Tucson community in Southern Arizona and Hard Rock community of the Navajo Nation in northern Arizona.
- Coordinator for a media literacy based health promotion intervention program with the South Tucson community.

RESEARCH PROJECTS

Biostatistician

1. Club Cell Secretory Protein and CF Progression, Sponsored by Cystic Fibrosis Foundation, PI: Stefano Guerra, MD, PhD, Co-PI: Wayne Morgan, MD, 2016-Present.
2. Children's Respiratory Study, Co-PIs: Stefano Guerra, MD, PhD, Anne Wright, PhD, Fernando Martinez, MD, 2016-Present.
3. Bioinformatics-based Comparative Effectiveness Research on the Effect of Positive Airway Pressure Therapy Adherence on Rehospitalization and Mortality in Patients with Multiple Chronic Medical Conditions, Truven Health MarketScan Database, Sponsored by Philips-Respironics, Inc. PI: Sairam Parthasarathy, MD, 2015-Present.
4. Treating Children to Prevent Exacerbation of Asthma, Childhood Asthma Research and Education Network, Sponsored by National Heart, Lung and Blood Institute (NHLBI), PI: Fernando Martinez, MD, 2013-2015.
5. Tucson Epidemiologic Study of Airway Obstructive Disease, Sponsored by National Heart, Lung and Blood Institute (NHLBI), PI: Stefano Guerra, MD, PhD, 2010-Present.
6. Tucson Children Assessment of Sleep Apnea Study, Sponsored by National Heart, Lung and Blood Institute (NHLBI), National Institutes of Health, PI: Stuart Quan, MD, 2007-2014.
7. Acupuncture as Complementary Therapy for Cerebral Palsy, Sponsored by the Arizona Biomedical Research Commission, Site PI: Burris Duncan, MD, 2009-2010.
8. Apnea Positive Pressure Long-Term Efficacy Study, Sponsored by National Heart, Lung and Blood Institute (NHLBI), Site PI: Stuart Quan, MD, 2005-2008.

Lead Coordinator

1. Steroids in Eosinophil Negative Asthma, AsthmaNet Network, Sponsored by National Heart, Lung, and Blood Institute (NHLBI), National Institutes of Health (NIH), Site PI: Fernando Martinez, MD, 2014-2015.
2. Step-Up Yellow Zone Inhaled Corticosteroids to Prevent Exacerbations, AsthmaNet Network, Sponsored by National Heart, Lung, and Blood Institute (NHLBI), National Institutes of Health (NIH), Site PI: Fernando Martinez, MD, 2014-2015.
3. Best African American Response to Asthma Drugs, AsthmaNet Network, Sponsored by National Heart, Lung, and Blood Institute (NHLBI), National Institutes of Health (NIH), Site PI: Fernando Martinez, MD, 2013-2015
4. Smoking Asthmatics Pilot Study: Smoking Asthmatics Cohort Study, American Lung Association Asthma Clinical Research Centers Network, Sponsored by the American Lung Association (ALA), National Heart, Lung, and Blood Institute (NHLBI), National Institutes of Health (NIH), Site PI: Lynn Gerald, PhD, 2013-2015.
5. Individualized Therapy for Asthma in Toddlers, AsthmaNet Network, Sponsored by National Heart, Lung, and Blood Institute (NHLBI) National Institutes of Health (NIH), Site PI: Fernando Martinez, MD, 2012-2015.
6. Effect of Positive Airway Pressure on Reducing Airway Reactivity in Patients with Asthma, American Lung Association Asthma Clinical Research Centers Network, Sponsored by American Lung

- Association (ALA), National Heart, Lung, and Blood Institute (NHLBI), National Institutes of Health (NIH), Site PI: Lynn Gerald, PhD, 2012-2015.
7. Long-acting Beta Agonist Step Down Study, American Lung Association Asthma Clinical Research Centers Network, Sponsored by the American Lung Association (ALA), Site PI: Lynn Gerald, PhD, 2012-2015.
 8. Azithromycin for Preventing the Development of Upper Respiratory Tract Illness into Lower Respiratory Tract Symptoms in Children and Oral Corticosteroids for Treating Episodes of Significant Lower Respiratory Tract Symptoms in Children, AsthmaNet Network, Sponsored by National Heart, Lung, and Blood Institute (NHLBI), National Institutes of Health (NIH), Site PI: Fernando Martinez, MD, 2011-2015.
 9. Association of Exacerbation Frequency to Deficit in Lung Function Growth in Childhood Asthma (CARE Extension), Childhood Asthma Research and Education Network, Sponsored by National Heart, Lung, and Blood Institute (NHLBI), Site PI: Fernando Martinez, MD, 2011.
 10. Colesevelam Oral Suspension as Monotherapy or Add-on to Metformin Therapy in Pediatric Subjects with Type 2 Diabetes Mellitus, Sponsored by Daiichi Sankyo Pharma Development, Site PI: Chetanbabu Patel, MD, 2010-2014.
 11. BioRepository for Integrative Genomic Exploration, Childhood Asthma Research and Education Network, Sponsored by National Heart, Lung, and Blood Institute (NHLBI), National Institutes of Health (NIH), Site PI: Fernando Martinez, MD, 2010-2011.
 12. A Randomized, Double-Blind, Parallel Group study of FSC 100/50 and FP 100, both twice daily, in a Pediatric Population during the Fall Viral Season, Sponsored by GlaxoSmithKline (GSK), Site PI: Mark Brown, MD, 2010-2011.
 13. Safety and Efficacy of Exenatide as Monotherapy and Adjunctive Therapy to Oral Antidiabetic Agents in Adolescents with Type 2 Diabetes, Sponsored by Eli Lilly and Company, Site PI: Mark Wheeler, MD, 2009-2013.
 14. Study of Asthma and Nasal Steroids, American Lung Association Asthma Clinical Research Center Network, Sponsored by American Lung Association (ALA), National Institutes of Health (NHI), Site PI: Lynn Gerald, PhD, 2009-2013.
 15. Study of Soy Isoflavones in Asthma, American Lung Association Asthma Clinical Research Center Network, Sponsored by American Lung Association (ALA), National Institutes of Health (NIH), Site PI: Lynn Gerald, PhD, 2009-2012.
 16. Asthma Patient Registry, American Lung Association Asthma Clinical Research Center Network, Site PI: Lynn Gerald, PhD, 2009-2015.
 17. A Phase III, 3-Arm, Randomized, Double-Blind, Placebo-Controlled, Multicenter Study to Investigate the Impact of Diamyd on the Progression of Diabetes in Patients Newly Diagnosed with Type 1 Diabetes Mellitus, Sponsored by Diamyd Pharmaceuticals, Site PI: Mark Wheeler, MD, 2009-2012.
 18. A Long-Term, Randomized, Double-Blind, Parallel Group Study of Fluticasone Furoate/GQ642444 Inhalation Powder Once-Daily and Fluticasone Furoate Inhalation Powder Once-Daily in Subjects with Asthma, Sponsored by GlaxoSmithKline (GSK), Site PI: Mark Brown, MD, 2009-2010.
 19. Effects of an Infant Formula with Probiotics on Signs and Symptoms of Colic, Sponsored by Nestle, Site PI: Conrad Clemens, MD, 2009-2010.

20. Maintenance vs Intermittent Inhaled Steroids in Wheezing Toddlers, Childhood Asthma Research and Education Network, Sponsored by National Heart, Lung and Blood Institute (NHLBI), Site PI: Fernando Martinez, MD, 2008-2010.
21. Treating Children to Prevent Exacerbation of Asthma, Childhood Asthma Research and Education Network, Sponsored by National Heart, Lung and Blood Institute (NHLBI), Site PI: Fernando Martinez, MD, 2007-2010.
22. Best Add-on Therapy Giving Effective Responses, Childhood Asthma Research and Education Network, Sponsored by National Heart, Lung and Blood Institute (NHLBI), Site PI: Fernando Martinez, MD, 2007-2009.
23. Inner-City Anti-IgE Therapy for Asthma, Inner City Asthma Consortium, Sponsored by Division of Allergy, Immunology, and Transplantation, National Institute of Allergy and Infectious Diseases (NIAID), Site PI: Wayne Morgan, MD, 2006-2010.
24. IL-8 and GATA3-mediated Pathways in Asthma Exacerbations, Sponsored by National Heart, Lung and Blood Institute (NHLBI), PI: Fernando Martinez, MD, 2006-2010.

Coordinator

1. A Multicentre, Randomized, Double-Blind, Parallel Group, Placebo Controlled, Phase III Efficacy and Safety Study of Benralizumab (MEDI-563) Added to High-Dose Inhaled Corticosteroid Plus Long-Acting β 2 Agonist in Patients with Uncontrolled Asthma, Sponsored by AstraZeneca, Site PI: Tara Carr, MD, 2014-2015.
2. A Prospective Observational Study to Evaluate Predictors of Clinical Effectiveness in Response to Omalizumab, Sponsored by Genentech, Site PI: Tara Carr, MD, 2014-2015.
3. The Cost-Effectiveness of School-Based Supervised Asthma Therapy, Sponsored by National Institutes of Health, National Heart, Lung, and Blood Institute (NHLBI), PI: Lynn Gerald, PhD, 2013-2015.
4. A 6-Month Safety and Benefit Study of Inhaled Fluticasone Propionate/Salmeterol Combination versus Inhaled Fluticasone Propionate in the Treatment of 6,200 Pediatric Subjects 4-11 Years Old with Persistent Asthma, Sponsored by GlaxoSmithKline (GSK), Site PI: Mark Brown, MD, 2012-2015.
5. A Randomized Double-Blind, Placebo-Controlled, Phase 3 Study of the Efficacy and Safety of Pirfenidone in Patients with Idiopathic Pulmonary Fibrosis, Sponsored by InterMune, Site PI: Gordon Carr, MD, 2012-2014.
6. Respiratory-Related Diseases Patient Registry, Sponsored by the University of Arizona, Department of Medicine, Pulmonary Division, PI: Kenneth Knox, MD, 2011-2015.
7. TrialNet Natural History Study of the Development of Type 1 Diabetes, Sponsored by Department of Health and Human Services, National Institutes of Health (NIH), National Institute of Diabetes and Digestive and Kidney Diseases, Juvenile Diabetes Research Foundation, American Diabetes Association, Site PI: Kurt Griffin, MD, PhD, 2010-2013.
8. A Phase 3, International, Multi-Center, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group Efficacy and Safety Study of Denufosol Tetrasodium Inhalation Solution in Patients with Cystic Fibrosis Lung Disease and FEV1 >75 % but <110 % Predicted, Sponsored by Inspire Pharmaceuticals, Inc., Site PI: Cori Daines, MD, 2009-2010.

9. A randomized, double-blind, placebo-controlled parallel group study to investigate the safety and efficacy of two doses of tiotropium bromide administered once daily via the Respimat device for 12 weeks in patients with cystic fibrosis, Sponsored by Boehringer Ingelheim Pharmaceuticals, Site PI: Cori Daines, MD, 2009.
10. An Open-Label, Randomized, Phase 3 Trial to Evaluate the Efficacy and Safety of Aztreonam for Inhalation Solution versus Tobramycin Inhalation Solution in an Intermittent Aerosolized Antibiotic Regimen in Patients with Cystic Fibrosis, Sponsored by Gilead Sciences, Inc., Site PI: Cori Daines, MD, 2009.
11. Long Term Administration of Inhaled Dry Powder Mannitol in Cystic Fibrosis-A Safety and Efficacy Study, Sponsored by Pharmaxis, Ltd, Site PI: Cori Daines, MD, 2009.
12. A Phase 2, Double-Blind, Multicenter, Randomized, Placebo-Controlled Trial Evaluating Fosfomycin/Tobramycin for Inhalation in Patients with Cystic Fibrosis and Pseudomonas aeruginosa, Sponsored by Gilead Sciences, Inc., Site PI: Cori Daines, MD, 2009.
13. A Phase 1/2a, Randomized, Double-Blind, Placebo-Controlled, Dose-Escalation Study to Evaluate the Safety, Tolerability, Immunogenicity and Vaccine-Like Viral Shedding of MEDI-534, a Live, Attenuated Intranasal Vaccine Against Respiratory Syncytial Virus (RSV) and Parainfluenza Virus Type 3 (PIV3), in Healthy 6 to <24 Month-Old Children and in 2 Month Old Infants, Sponsored by MedImmune, Site PI: Mark Brown, MD, 2009.
14. Montelukast or Azithromycin for Reduction of Inhaled Corticosteroids in Childhood Asthma, Childhood Asthma Research and Education Network, Sponsored by National Heart, Lung and Blood Institute, Site PI: Fernando Martinez, MD 2006-2007.
15. Asthma Control Evaluation: A Biomarker-Based Approach to Improving Asthma Control, Inner City Asthma Consortium, Sponsored by Division of Allergy, Immunology, and Transplantation, National Institute of Allergy and Infectious Diseases (NIAID), Site PI: Wayne Morgan, MD, 2006.

Laboratory Work

1. A Randomized, Double Blind, Parallel Group, Placebo Controlled 28 Day Study to Investigate the Safety, Tolerability and Pharmacodynamics of SB-656933 in Patients with Cystic Fibrosis, Sponsored by GlaxoSmithKline, Site PI: Cori Daines, MD, 2009-2010.
2. IL-8 and GATA3-mediated Pathways in Asthma Exacerbations, Sponsored by National Heart, Lung and Blood Institute, PI: Fernando Martinez, MD, 2005-2006.
3. Keokuk County Rural Health Cohort Study, 2003.
4. Infant Immune Study, 2001-2002.

RESEARCH COMMITTEES

1. Executive Committee, Nominated Coordinator Representative, American Lung Association Asthma Clinical Research Centers, 2013-2014.
2. AsthmaNet Recruitment and Retention Committee, AsthmaNet Research Network, 2011-2014.
3. AsthmaNet Forms Development Committee, AsthmaNet Research Network, 2010-2012.
4. Research Advisory Committee, Mel and Enid Zuckerman College of Public Health, University of Arizona, 2007-2009.

TEACHING EXPERIENCE

Student Committees

- Dissertation Committee Member, Maritza Rodriguez, DSc, MA, LAT, Rocky Mountain University of Health Professions, 2008-2013.

Guest Lecturer

- Analysis of Categorical Data, CPH 647, University of Arizona, 2016.
- Analysis of High Dimensional Data, CPH 648, University of Arizona, 2016.
- Environmental, Occupational, and Injury Epidemiology, CPH 680, University of Arizona, 2016.
- School-based Asthma Research, CPH 459/559, University of Arizona, 2015.
- Special Topics: Asthma Research in Schools, CPH 459, University of Arizona, 2014.
- Theory of Linear Models, CPH 687, University of Arizona, 2013.

Instructor

- Mathematics Instructor, Intermediate Algebra (2 courses), Intermediate Geometry (2 courses), Geometry Concepts, Arizona's Instrument to Measure Standards (AIMS) Review for Mathematics, Pueblo Magnet High School, Tucson Unified School District, 2005.
- Substitute Mathematics Instructor, Amphitheater School District, 2004.
- Mathematics Instructor, College Preparatory Algebra 3-4, Mathematics Concepts, Marana High School, Marana Unified School District, 2003-2004.

Other Teaching Activities

- Provided spirometry training to a group of community health representatives for a field project on the Hopi reservation, Mel and Enid Zuckerman College of Public Health, 2016.
- Created water resource kits to implement within the 4th-12th grade classroom and provided teacher assistance in class preparation and instruction of water units, Hydrogeology and Water Resources, University of Arizona, 2003-2004.
- Math Tutor, Rincon High School, University of Arizona, 2002.

INVITED TALKS AND PANELS

1. Speaker, Lung Function in Young Adult Life and Mortality Risk, Pulmonary Research Conference, Department of Medicine, University of Arizona, March 23, 2015.
2. Speaker, Clinical Trial Management, Recruitment and Retention, American Lung Association Asthma Clinical Research Center, Coordinator Meeting, Key Largo, FL, February 19, 2014.
3. Speaker, Application of the Least Absolute Shrinkage and Selection Operator (LASSO), Biostatistics Seminar, Mel and Enid Zuckerman College of Public Health, University of Arizona, Tucson, AZ, September 19, 2012.
4. Panel Member, Best Practices Discussion: Recruitment Barriers and Recruitment Enhancing Strategies, Colesevelam Oral Suspension as Monotherapy or Add-on to Metformin Therapy in Pediatric Subjects with Type 2 Diabetes Mellitus, Investigator Meeting, Dallas, TX, December 3, 2011.

5. Speaker, Incidence and Remission of Sleep Disordered Breathing and Related Symptoms in 6-17 year old Children in the Tucson Children's Assessment of Sleep Apnea Study, Biostatistics Seminar, Mel and Enid Zuckerman College of Public Health, University of Arizona, Tucson, AZ, February 24, 2010.

SERVICE, OUTREACH, AND MENTORSHIP

- Presenter, Math Night, Challenger Middle School, 2015.
- Graduate and Professional Student Council Travel Grant Evaluation Committee, University of Arizona, 2009, 2015.
- Faculty Search Committee, Mel and Enid Zuckerman College of Public Health, Department of Biostatistics, 2014.
- Panel Member, MEZCOPH Doctoral and MS Student Experience Panel, Mel and Enid Zuckerman College of Public Health, University of Arizona, Tucson, AZ, 2014.
- Panel Member, MEZCOPH Doctoral and MS Student Information Panel, Mel and Enid Zuckerman College of Public Health, University of Arizona, Tucson, AZ, 2012.
- Panel Member, Your Career after College: A Public Health Professionals Discussion Panel, Mel and Enid Zuckerman College of Public Health, University of Arizona, Tucson, AZ, 2012.
- Volunteer, Annual Boxer Expo, Vail Academy and High School, 2012.
- Volunteer Judge, Southern Arizona Regional Science and Engineering Fair, 2012.
- Volunteer Participant, Cool Career Cards Project, City High School, 2012.
- Volunteer, 3rd Biennial Inter-professional Education Conference: Collaborating Across Borders, 2012.
- Team Captain, American Lung Association Walk for Life and Breath, 2010 - 2012.
- Mentor, Student Health Activist Society, University of Arizona, 2011.
- Arizona Assurance Mentor, University of Arizona, 2010 - 2011.
- First Year Student Mentor, Mel and Enid Zuckerman College of Public Health, 2010 - 2011.
- Volunteer, Native American Youth Wellness Camp, 2005.

PEER REVIEW SERVICE

- BMC Medical Research Methodology, 2014 - Present.

AWARDS

- Minority Trainee Development Scholarship, American Thoracic Society, 2016.
- Travel Award, Graduate and Professional Student Council, University of Arizona, 2016.
- "Persistent Insomnia is Associated with Mortality Risk", selected as one of the best and most influential articles published in 2015, The American Journal of Medicine, 2016.
- American Thoracic Society Abstract Scholarship, ATS Assembly on Clinical Problems, 2015.
- Travel Award, Graduate and Professional Student Council, University of Arizona, 2015.

- Public Health Fellowship, Mel and Enid Zuckerman College of Public Health, University of Arizona, 2011-2012.
- Graduate Student Fellowship, Mel and Enid Zuckerman College of Public Health, University of Arizona, 2010-2011.
- Travel Award, Mel and Enid Zuckerman College of Public Health, University of Arizona, 2010.
- Community Advisory Board Scholarship, Mel and Enid Zuckerman College of Public Health, University of Arizona, 2009-2010.
- Southern Arizona Golf Classic Scholarship, Hispanic Scholarship Fund, 2008-2009.
- Graduate Diversity Fellowship, University of Arizona, 2007-2008.
- Hispanic Women's Corporation and Canyon Ranch Latino Student Scholarship, Mel and Enid Zuckerman College of Public Health, University of Arizona, 2006-2009.
- Project EXPORT Fellowship, Mel and Enid Zuckerman College of Public Health, University of Arizona, 2005-2007.
- Mary F. and Maude Miller Scholarship, University of Arizona, 2003.
- Undergraduate Biology Research Program, University of Arizona, 2001-2003.

PROFESSIONAL AFFILIATIONS

- American Thoracic Society, 2010 - Present.
- Institute of Mathematical Statistics, 2009 - Present.
- American Academy of Allergy, Asthma, and Immunology, 2008 - 2009.
- Sleep Research Society, 2007 - 2009.
- American Statistical Association, 2006 - Present.

CONTINUING EDUCATION AND PROFESSIONAL DEVELOPMENT

- Mini-Workshop: Genetic Ancestry, Admixture Estimation and Mapping in African American and Latino Populations, Instructors Mike Hammer, Rick Kittles, Yann Klimentidus, Adam Bress, Ken Batai, University of Arizona, 2016
- Methods Workshop: Introduction to Growth and Growth Mixture Modeling with Structural Equation Modeling, Instructor Kevin Grimm, McClelland Institute, University of Arizona, 2015.
- American Thoracic Society (ATS) Annual Meetings, New Orleans 2010, Denver 2011, San Francisco 2012, Philadelphia 2013, San Deigo 2014, Denver 2015, San Francisco 2016.
- Biennial Interprofessional Education Conference: Collaborating Across Borders III, Tucson, AZ, 2012.
- Statistical Learning and Data Mining, Instructors Trevor Hastie and Robert Tibshirani, Georgetown University, Washington DC, 2010.
- American Academy of Allergy, Asthma, and Immunology (AAAAI) Annual Meetings, Philadelphia 2008, Washington DC 2009.
- Successful Supervisor Series, University of Arizona, 2008.

Monica M. Vasquez

- Associated Professional Sleep Societies Annual Meeting, Minneapolis 2007.
- Annual Women's Leadership Development Conference, University of Arizona, 2003.
- Annual Bioethics Retreat, Undergraduate Biology Research Program, University of Arizona, Central Arizona College, 2001.

SKILLS

**Statistical and Related Software
Languages**

R, STATA, SPSS, SAS, REDCap, EpiInfo, LaTeX
English (Native), Spanish (Intermediate)