

Amir Lueth, MPH
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Education

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| University of Utah Population Health Sciences/ Clinical and Translational Epidemiology Doctor of Philosophy Salt Lake City, UT | Dec, 2022 |
| University of Toledo Epidemiology Masters of Public Health Toledo, OH | June 1, 2012 |
| Clarion University Anthropology Biology-Ecology/Evolutionary Bachelor of Arts Clarion, PA | May 2, 2009 |

Programming Skills

Microsoft Office (Excel, Word, Outlook, PowerPoint, Publisher)
R Statistical Computing
SAS Analytics Pro (BASE) and SAS Visual Analytics
PASS13 + NCSS
EpiInfo
STATA
Python

Professional Experience

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| University of Utah, Department of Fetal Maternal Medicine Graduate Research Assistant | 2017-2022 |
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- Provide access to data and assist Dr. Silver and other NICHD principle investigators in ongoing NuMOM2b research projects
- Conduct literature reviews
- Conduct research work in archive data
- Summarize project results
- Prepare annual conference related articles, reports, presentation
- Prepare manuscripts for peer review journal publications
- Prepare materials for submission for grants foundations
- Attend project meetings
- Perform routine clerical duties as instructed by PI
- Assist with academic research

Sera Prognostics, INC
Clinical Biostatistician

2017-2019

- Assists in providing consultation to study investigators in the areas of the protocol development, study design, CRF review, analysis plan, sample size, power analyses and interpretation of data
- Lead and support of all statistical aspects for assigned clinical study projects
- Participates in reporting statistical findings and manuscript writing
- Conducts preliminary statistical data analysis of clinical data and molecular data
- Performs the completion of descriptive and inferential analyses
- Performs development of analysis datasets, QC of analysis datasets and document SAS programs and R programming for generating TLFs and SDTM/ADaM datasets
- Advise data management staff on database design, critical data, and validation checks
- Participates in central data monitoring
- Performs ad hoc analysis, produce and or validate clinical programming and software in data cleaning and extraction
- Reviews data for discrepancies, interact with data managers and create analysis datasets

Sera Prognostics, INC
Clinical Data Manager

2012-2017

- Uses SAS, R, statistical analysis programs and data management software for the production of datasets, tables, listings, graphs, figures
- Conducts sample size and power analyses
- Participates in study design, reports statistical findings and manuscript writing
- Writes Statistical Analysis plans and conducts preliminary statistical data analysis of clinical data and molecular data
- Implement regulations and policies governing data management and data systems, including but not limited to good clinical practice (GCP), ICH guidelines, 21 CFR Part 11 and FDA guidelines.
- Lead on the CRF/ eCRF development process
- Oversees all data management deliverables for assigned studies
- Authors and maintains the Data Management Plans and SOPs
- Defines, performs, and reviews edit checks and resolve discrepant data
- Participates in Clinical Trials audits (internal and external)
- Ensures accuracy in manipulation and scrutiny of clinical data and ensure all CDM activities are carried out according to regulatory guidelines
- Implement study closeout procedures and database lock

University of Toledo Hospital
Infection Prevention and Control Coordinator

Aug-2011-May-2012

- Investigated, collected data, coordinated, managed hospital-acquired infection, generated novel infections rates, monitored hospital wide hand hygiene compliance
- Reported disease surveillance data to hospital infectious disease committees, local Health Departments, National Healthcare Safety Network and CDC Surveillance Networks
- Assisted in a disaster response service and emergency preparedness for the hospital
- Strategically planned methods, identified process improvements in the day to day functioning of the department
- Incorporated evidence-based Hepatitis C research into practice environment to ensure high quality care for patients

- Contributed to and participated in community/hospital education projects to foster widespread understanding of the prevention and treatment of illnesses
- Monitored, facilitated university wide influenza vaccination compliance, assessed hospital wide environmental health and safety needle stick surveillance injuries

Online Course Certifications

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| 1. Designs and Interpretation of Clinical Trials | Johns Hopkins University |
| 2. Data Management for Clinical Research | Vanderbilt University |
| 3. Health and Society | Harvard University |
| 4. Fundamentals of Clinical Trials | Harvard University |

Publications

1. **Lueth AJ**, Allshouse AA, Blue NM, et al. Allostatic Load and Adverse Pregnancy Outcomes. *Obstet Gynecol.* 2022;140(6):974-982. doi:10.1097/AOG.0000000000004971
2. **Lueth A**, Blue N, Silver RM, et al. Prospective evaluation of placental abruption in nulliparous women [published online ahead of print, 2021 Nov 23]. *J Matern Fetal Neonatal Med.* 2021;1-8. doi:10.1080/14767058.2021.1989405
3. Saade, George R., Kim A. Boggess, Scott A. Sullivan, Glenn R. Markenson, Jay D. Iams, Dean V. Coonrod, Leonardo M. Pereira, M. Sean Esplin, Larry M. Cousins, Garrett K. Lam, Matthew K. Hoffman, Robert D. Severinsen, Trina Pugmire, Jeff S. Flick, Angela C. Fox, **Amir J. Lueth**, Sharon R. Rust, Emanuele Mazzola, Chien ting Hsu, Max T. Dufford, Chad L. Bradford, Ilia E. Ichetovkin, Tracey C. Fleischer, Ashoka D. Polpitiya, Gregory C. Critchfield, Paul E. Kearney, J. Jay Boniface, and Durlin E. Hickok. "Development and Validation of a Spontaneous Preterm Delivery Predictor in Asymptomatic Women." *American Journal of Obstetrics and Gynecology* 214.5 (2016)
4. Srinivasan, Srimeenakshi, **Amir Lueth**, et al. "Discovery and Verification of Extracellular MiRNA Biomarkers for Non-Invasive Prediction of Pre-Eclampsia in Asymptomatic Women." *Cell Reports Medicine*, vol. 1, no. 2, 2020, p. 100013., doi:10.1016/j.xcrm.2020.100013.

Poster Abstracts and Oral Presentations

1. **A.J. Lueth** "Assessment of Infection Rates at a Northwest University-Based Teaching Hospital Pre and Post an Isolation Process Change." Annual Midwest Graduate Research Conference. Ann Arbor, MI. (2012).
2. JJ Boniface, TC Fleischer, CL Bradford, JS Flick, AD Gassman, I Ichetovkin, T Pugmire, RD Severinsen, AC Fox, S Rust, **AJ Lueth**, AD Polpitiya, GC Critchfield and DE Hickok. "Proteomic Discovery of Serum Biomarkers Predictive of Preterm Birth." Baltimore, MD. American Society for Mass Spectrometry. (2014).
3. Andrew D. Gassman, Chad L. Bradford, Ashoka D. Polpitiya, Trina Pugmire, Jeff S. Flick, Robert D. Severinsen, Max T. Dufford, Donna L. Smith, Angela C. Fox, Sharon Rust, **Amir J. Lueth**, Durlin E. Hickok, Ilia Ichetovkin, J. Jay Boniface, Tracey C. Fleischer. "Immunoassay Confirmation of MRM-MS Data Supports a Role for Acute Phase Proteins in the Prediction of Spontaneous Preterm Birth." San Francisco, CA. Society for Reproductive Investigation. (2015).
4. Andrew D. Gassman, Chien Ting Hsu, Chad L. Bradford, Ashoka D. Polpitiya, Trina Pugmire, Jeff S. Flick, Robert D. Severinsen, Max T. Dufford, Donna L. Smith, Angela C. Fox, Sharon Rust, **Amir J. Lueth**, Durlin E. Hickok, Robert D. Severinsen, Ilia Ichetovkin, J. Jay Boniface, Gregory C. Critchfield, Tracey C. Fleischer. "Immunoassay Performance of a Preterm Birth Classifier." Montreal, QC, Canada. Society for Reproductive Investigation. (2016).

5. George R. Saade, Kim A. Boggess, Scott A. Sullivan, Glenn R. Markenson, Jay D. Iams, Dean V. Coonrod, Leonardo M. Pereira, M. Sean Esplin, Larry M. Cousins, Garrett K. Lam, Matthew K. Hoffman, Angela C. Fox, **Amir J. Lueth**, ChienTing Hsu, Annalise Dykes, Max T. Dufford, Ashoka D. Polpitiya, Paul E. Kearney, Todd L. Randolph, J. Jay Boniface, Durlin E. Hickok, Tracey C. Fleischer. “PPROM and PTL Phenotypes Are Characterized by Differences in Underlying Biochemical Pathways.” Las Vegas. Society for Maternal-Fetal Medicine. (2017).
6. Kim Boggess, George R. Saade, Scott A. Sullivan, Glenn R. Markenson, Jay D. Iams, Dean V. Coonrod, Leonardo M. Pereira, M. Sean Esplin, Larry M. Cousins, Garrett K. Lam, Matthew K. Hoffman, Angela C. Fox, **Amir J. Lueth**, ChienTing Hsu, Max T. Dufford, Tracey C. Fleischer, Ashoka D. Polpitiya, Paul E. Kearney, Durlin E. Hickok, J. Jay Boniface, Todd L. Randolph. “Use of a Second Trimester Serum-Based Proteomic Risk Classifier for Prediction of Spontaneous and Medically-Indicated Preterm Birth”. Las Vegas. Society for Maternal-Fetal Medicine. (2017).
7. D. Coonrod, **A. Lueth**, S Sullivan, G Lam, K Boggess, D Hickok. “Nausea and Vomiting and the Risk of Preterm Birth”. San Diego, CA. Annual Clinical and Scientific Meeting (2017).
8. Kim Boggess, George R. Saade, Larry M. Cousins, Dean V. Coonrod, **Amir J. Lueth**, Todd L. Randolph. “Medically Indicated Preterm Deliveries - Are Placental Dysfunction and Vasculopathies Related?.” Austin, TX. Annual Clinical and Scientific Meeting (2018).
9. M. Monson, **A. Lueth**, G. Saade, D. Dudley, R. Silver, K. Gibbins. Causes and Risk Factors for Stillbirth in Women of Advanced Maternal Age. Society for Reproductive Investigation’s 63th Annual Scientific Meeting in San Diego, CA March 6-10, 2018.
10. **Amir J. Lueth**, Nathan R. Blue, Robert M. Silver, William A. Grobman, Hyagriv N. Simhan, Uma M. Reddy, David Hass. Placental Abruption in Nulliparous women. Society for Maternal Fetal Medicine Annual Scientific, Dallas, TX February 2-7, 2020.
11. **Amir J. Lueth**, Nathan R. Blue, Robert M. Silver. Is Conception with Assisted Reproductive Technology Associated with Increased Maternal Psychological Stress in Nulliparous Women? Society for Reproductive Investigation, Vancouver, BC Canada March 4-10, 2020.
12. **Amir J. Lueth**, Nathan R. Blue, Robert M. Silver, Maureen Murtaugh, Fernando Wilson, Amanda Allshouse. The association of Allostatic load and Adverse Perinatal Outcomes, Orlando, FL Jan 31-Feb 4, 2022.
13. **Amir J. Lueth**, Nathan R. Blue, Robert M. Silver, Amanda Allshouse. Association of Allostatic Load and Later Maternal Cardiovascular Outcomes. Society for Reproductive Investigation, Denver. CO March 16-19, 2022.
14. **Amir J. Lueth**, Nathan R. Blue, Robert M. Silver, Amanda Allshouse. Association of Allostatic Load and Sleep Disordered Breathing. Society for Reproductive Investigation, Denver. CO March 21-25, 2023.

Other Experience and Professional Memberships

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| 2012- Present | Member, American Public Health Association |
| 2017- Present | Member, Society of Maternal Fetal Medicine |
| 2018-Present | Famtor Mentor, Famtorship for Social Justice-Equity, Diversity and Inclusion |
| 2019- Present | Member, Society of Reproductive Investigations |
| 2019- Present | Student Advisory Committee at Population Health Science Department |
| 2020-Present | Teaching Assistant, R Programming boot camp |
| 2020-Present | Poster Evaluator, Undergraduate Research Symposium |
| 2020-Present | Chair, PHS Student Admission Committee at PHS Department |
| 2020-Present | Member, Equity, Diversity and Inclusion Committee at PHS Department |
| 2013- 2019 | Member, Society for Clinical Data Management |
| 2014-2017 | IRB Reviewer, University of Utah |
| 2020-2020 | Teaching Assistant, Introduction and Intermediate Epidemiology |
| 2020-2021 | Chair, Student Advisory Committee at Population Health Science Department |

2022-2022 Journal of Clinical Gynecology and Obstetrics manuscript reviewer

Honors

2015 SAS 2015 Junior Professionals Awards
2017 African American Doctoral Initiatives Award
2022 SRI President's Presenter's Award

Volunteer Activities

Event Organizer, TEDx Salt Lake City

- Coordinated registration and event activities for TEDx speakers and presenters.

Languages

English, proficient
Arabic, proficient

References

Available upon request.