

# Hanna Lindner

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## EDUCATION

<b>University of Pennsylvania, Perelman School of Medicine</b>	Philadelphia, PA, USA
PhD Candidate of Biostatistics	August 2016-Present
Master of Science, Biostatistics	May 2018
Relevant coursework: Spatial Statistics; Probabilistic Models; Missing Data; Longitudinal Data Analysis	
<b>University of Central Florida, College of Sciences</b>	Orlando, FL, USA
Bachelor of Science, Statistics (Summa Cum Laude)	May 2016

## RESEARCH EXPERIENCE

<b>Dissertation, University of Pennsylvania</b>	June 2018-Present
<i>Advised by Dr. Warren Bilker &amp; Dr. Phyllis Gimotty</i>	
<ul style="list-style-type: none"><li>Creation of a new modeling framework to assess diagnostic ability of traditional and non-traditional biomarkers with applications in mental health and melanoma which will result in three publications</li><li>Developed a model to obtain discrete diagnostic likelihood ratios (DLR) allowing for covariate adjustment and decomposition of the DLR</li></ul>	
<b>Graduate Student Researcher, University of Pennsylvania</b>	September 2018-Present
<i>Principle Investigator: Dr. Phyllis Gimotty</i>	
<ul style="list-style-type: none"><li>Conducted literature review of existing methods that identify and test for nontraditional biomarkers</li><li>Compared power and type I error of existing statistics to a recently developed statistic using simulation studies in R which will result in at least one publication</li><li>Identified potential traditional and nontraditional genetic biomarkers for head and neck cancer using the best performing methods described in the simulation studies</li></ul>	
<b>Career Exploration Fellow, Univ. of Pennsylvania Office of Sustainability</b>	February 2020-Present
<i>Host: Natalie Walker and Madeline Schuh</i>	
<ul style="list-style-type: none"><li>Participated in the PhD Career Exploration Fellowship which allows for experience outside of the traditional career trajectory</li><li>Developed a web-based waste dashboard using RShiny to assess and visualize longitudinal trajectory of waste (solid waste, recycling, and compost) for all campus buildings</li><li>Will conduct a formal longitudinal analysis to investigate significant trends and identify poorly performing buildings on campus</li><li>Attended and shared works in progress at Environmental Sustainability Advisory Committee meetings made up of faculty and staff working to achieve goals laid out in Penn's Climate Action Plan 3.0</li></ul>	
<b>Master's Thesis, University of Pennsylvania</b>	August 2017-June 2018
<i>Advised by Dr. Justine Shults &amp; Dr. Deirdre Sawinski</i>	
<ul style="list-style-type: none"><li>Identified kidney dialysis noncompliance risk factors and assessed their impact on post-transplant outcomes using Cox regression to influence decision making policy resulting in one publication currently under review</li><li>Collaborated with nephrologists and clinicians across institutions to develop potential risk factor variables.</li></ul>	

- Compared applications of a traditional and correlated Poisson age, period, cohort model to prostate cancer risk and investigate geographic and demographic disparities in the US using SEER data with analysis performed in R and MATLAB
- Presented findings for two conferences hosted by NIH

## Publications & Presentations

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- Modi, M.B., Gimotty, P., Ming, M.E., Jariwala, N., Elenitsas, R., Miller, C., **Lindner, H.**, Moshiri, A.S., Schwartz, L.E., Lal, P., Reyes, M.C., Elder, D.E., Xu, X. Urethral involvement is associated with higher mortality and local recurrence in vulvar melanoma: a single institutional experience. *In review (American Journal of Surgical Pathology)*. May 2020
- Sawinski D., **Lindner H.**, Shults J., Locke J.E., Cohen, J.B., MacLennan P.A., Reese, P.P. Do actions speak louder than labs? A retrospective cohort study of dialysis non-adherence and kidney transplant outcomes. *In review (Annals of Internal Medicine)*. April 2019.
- Dawson, P., Gimotty, P., **Lindner, H.**, Guerry, D. The area between cumulative distribution functions and additional metrics to identify nontraditional biomarkers. *In progress*. 2019
- **Lindner, H.**, & Bilker, W. A Nonparametric Procedure for Comparing Dependent Kappa Statistics. *In progress*. 2019.
- Talton, W., **Lindner, H.**, & Rovito, M. J. Increasing Urologic Care Ratios: Implications of Male Patient Care in Florida. *American journal of men's health*, 2016.
- "Nonparametric Procedure for Comparing Dependent Kappa Statistics". ENAR; Denver, CO; July 2019.
- "Regional Trends and Patterns in Prostate Cancer Incidence Among Blacks and Whites in the United States". Symposium on Cancer Health Disparities; Bethesda, MD; October 2016.

## Computing

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- Expert: R
- Working knowledge: SAS, Stata, SPSS, MATLAB
- Applications: LaTeX, knitr, RMarkdown, StatWeave, GitHub, RShiny