**Jackie Pollack**

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**EDUCATION**

**University of Florida,** Gainesville, Florida August 2020-Present

Ph.D. Epidemiology Candidate

Data Science Concentration

**London School of Hygiene and Tropical Medicine,** London, England September 2017

Master of Science in Epidemiology

**Stetson University**, DeLand, FL May 2016

Bachelor of Science in Integrative Health Science

Minor in Public Health

Phi Beta Kappa

Magna Cum Laude

**RESEARCH EXPERIENCE**

***Graduate Assistant*, Dynamic Prediction Modelling, University of Florida,** Gainesville, FL

*August 2020 –Present*

* Demonstrating expertise in dynamic prediction modeling and its application to surgical aortic valve replacement patients' postoperative mortality.
* Developing and implementing advanced statistical models using R to analyze patient data and predict mortality outcomes in the context of surgical aortic valve replacement.
* Collaborating with a multidisciplinary research team to refine prediction models and evaluate their accuracy, demonstrating strong teamwork and communication skills.
* Actively participating in the development, validation, and updating of clinical prediction models for my doctoral dissertation, showcasing my commitment to research and academic excellence.
* Demonstrating proficiency in various methods of model selection, including LASSO regression, stepwise, forward, and backward variable selection, ensuring the selection of relevant predictors and improving model accuracy.
* Utilizing medical billing/claims data for cohort development, showcasing my ability to work with complex healthcare datasets and derive meaningful insights.
* Producing manuscripts that compare different frequentist updating strategies (e.g., never updating, calibration regression, dynamic logistic state space modeling) and the impact of updating intervals on overall model performance, contributing to the advancement of knowledge in the field with two manuscripts in preparation in reputable journals.
* Contributing to the scientific exchange of ideas and findings, promoting collaboration, and advancing the understanding of epidemiologic research.
	+ Published *Dynamic Prediction Modeling of Postoperative Mortality among Surgical Aortic Valve Replacement (SAVR) Patients in a State-Wide Cohort over a 12-year period” (2023)* in the Journal of Thoracic and Cardiovascular Surgery Open
	+ Presented a poster titled "*Dynamic Prediction Modeling of Postoperative Mortality among Surgical Aortic Valve Replacement (SAVR) Patients in a State-Wide Cohort over a 12-year period" at SER's 2022 Annual Meeting.*
* Demonstrating a strong passion for continuous learning and implementing new statistical analyses in R, showcasing my ability to adapt to new methodologies and technologies.

***Interviewer Lead*, *NDEWS Rapid Street Reporting,* University of Florida,** Gainesville, FL

*Spring 2022-Present*

* Leading on-the-ground rapid street data collection efforts, gathering valuable insights on the use of new psychoactive substances (NPS) at sentinel sites nationwide, contributing to a comprehensive understanding of emerging drug trends.
* Demonstrating strong leadership skills by effectively training and supervising interviewers during site visits, ensuring consistency and accuracy in data collection protocols.
* Implementing rigorous data-quality checks to maintain the integrity and reliability of collected information, showcasing meticulous attention to detail and a commitment to producing high-quality research.
* Taking responsibility for the acquisition and secure transition of collected data to safe and remote servers for future analysis, demonstrating excellent organizational and data management skills.
* Working both independently and as part of a team to adapt to changes in site visits, effectively overcoming challenges and ensuring the collection of high-quality data that accurately represents the diverse US population.
* Utilizing excellent communication and interpersonal skills to establish rapport with participants and gather accurate and detailed information, ensuring the validity and reliability of the collected data.
* Demonstrating proficiency in data analysis and interpretation, using statistical software (such as R) to identify trends and patterns within the collected data.
* Applying ethical considerations and maintaining confidentiality in all stages of the data collection process, upholding professional standards, and ensuring participant privacy.

***Graduate Assistant*, Health Policy Research-Medicaid Abortion Funding, University of Florida,** Gainesville, FL

*January 2022 –May 2022*

* Conducted a scoping review on the social, economic, physical, and mental health impact of restricting federal funding (primarily Medicaid) for abortions in the United States among vulnerable populations.
* Engaged with diverse literature and sources to identify gaps in research and highlight the social justice implications of restrictive abortion funding policies, emphasizing the importance of reproductive autonomy and access to safe and legal abortion care.
* Applied critical thinking and analytical skills to assess the quality and relevance of studies, ensuring the inclusion of robust evidence in the scoping review and offering a comprehensive overview of the issues at hand
* Demonstrated a strong understanding of federal policy by reviewing and synthesizing relevant regulations and guidelines, providing a nuanced analysis of the implications of funding restrictions on access to reproductive healthcare and social equity.
* Highlighted the disproportionate impact of funding restrictions on vulnerable populations, such as low-income individuals, racial and ethnic minorities, and those residing in medically underserved areas, contributing to a broader understanding of the intersecting factors influencing reproductive health disparities.
* Demonstrated a commitment to social justice by advocating for evidence-based policies that prioritize equitable access to reproductive healthcare and address systemic barriers faced by marginalized communities.

***Graduate Assistant*, COVID-19 Transmission and Incarceration, University of Florida,** Gainesville, FL

*Fall 2021 –May 2022*

* Conducted a scoping review on neglected topics among the impact of jail cycling, the role of correctional staff, and state/federal mask policies on COVID-19 transmission within and between communities.
* Demonstrated expertise in literature review methodologies, including search strategy development, database selection, and data extraction, ensuring a comprehensive and systematic approach to gathering relevant information.
* Utilized critical appraisal skills to evaluate the quality and relevance of the identified studies, assessing the strength of evidence and identifying gaps for further investigation.
* Developed a questionnaire assessing the safety and efficacy of COVID-19 vaccinations among incarcerated populations one year following the availability of vaccines.

***Academic Support Fellow*, Tomoka Correctional Facility and Stetson University,** DeLand, FL

*August 2019 – August 2020*

* Provided higher education for prison inmates with Community Education Project (CEP)
* Used formative research to create a program evaluation survey and questionnaire
* Designed assessment protocol using Participatory-Social Justice Theory
* Employed formative research methodologies during qualitative one-on-one interviews twice a week
* Transcribed responses during interviews and coded them into Excel
* Analyzed qualitative data for themes to develop quantitative questionnaires
* Evaluated quantitative data to report on the effectiveness of current teaching modalities and learning outcomes
* Wrote and presented bimonthly reports

***Early Immunization and Cardiovascular Health in Young Adulthood*, London School of Hygiene and Tropical Medicine**, London, England

*Summer 2017*

* Conducted a rigorous analysis as part of my Master's thesis within the Andra Pradesh Children and Parents Study (APCaPS), examining the relationship between childhood vaccinations and the prevention of sub-clinical cardiovascular disease in rural India. This experience showcases my ability to undertake independent research projects and contribute to existing longitudinal cohort studies.
* Demonstrated proficiency in handling large datasets, effectively managing and organizing complex data from a long-term cohort study, and ensuring data integrity and accuracy throughout the analysis process.
* Developed and utilized proxy measures to capture desired outcomes related to sub-clinical cardiovascular disease, displaying my resourcefulness in addressing research questions when direct measures may be unavailable or challenging to obtain.
* Applied regression techniques to examine the association between childhood immunization and cardiovascular health outcomes, demonstrating my ability to use advanced statistical methods to derive meaningful insights from complex data.
* Developed a solid understanding of the distinction between causal and predictive modeling, emphasizing my ability to critically evaluate research designs and choose appropriate analytical approaches to address specific research questions.
* Showcased my readiness for Ph.D. studies through the successful completion of a comprehensive Master's thesis, which required independent research, analytical skills, and critical thinking abilities.
* Demonstrated effective communication skills in presenting research findings and discussing complex concepts, both in written form and during academic presentations.

***Effects of Racial Segregation on Breast Cancer Surgery and Survival*, Stetson University**, DeLand, FL

*Fall 2016*

* Conducted a literature review and writing support in conference abstracts and publications.
* Utilized semi-parametric statistical method of analysis including multi-level logistic and Cox proportional hazards models.
* Demonstrated attention to detail and meticulousness in data analysis, ensuring accurate and reliable results that support the study's objectives.

***Stetson Undergraduate Research Experience Grant Recipient*, Stetson University**, DeLand, FL

*Spring 2015*

* Publication of manuscript accepted in the *American Journal of Preventative Medicine*, “Spatial Patterns and Neighborhood Characteristics of Overall Suicide Clusters in Florida from 2001 to 2010”.
* Awarded a $2,000 grant for the geospatial analysis of suicide clusters in Florida under the supervision of Dr. Asal Johnson and Dr. Joseph Woodside.
* Conducted a literature review on suicide contagion and associated factors.
* Constructed cluster map using Geographic Information System (GIS) software.
* Aided in manuscript writing.

***Public Health and Community Needs Assessment Report of Spring Hill Community,* Stetson University**, DeLand, FL

*Fall 2015*

* Partnered with Volusia County Health Department to develop and evaluate their programs, discuss appropriate measures relative to study goals, and collect and analyze primary and secondary qualitative and quantitative data.
* Conducted descriptive study of the neighborhood regarding the built environment, walkability, safety, and access to resources.
* Experienced in survey research development.
* Served as focus group moderator.
* Experienced with door-to-door sampling and convenience sampling techniques.
* Provided statistics and case findings using descriptive analysis, Chi2, and trend reports of mental, physical, and environmental health concerns.
* Awarded the Integrative Health Science Service and Scholarship award on behalf of Stetson University for the development of the report
* Contributed to grant writing efforts

***Survival with Malignant Skin Cancer, Stetson University,*** *DeLand, FL*

*Fall 2014*

* Applied epidemiological principles to interpret and communicate findings effectively from a secondary data analysis, contributing to the broader understanding of malignant skin cancer survival rates
* Used SPSS to compile statistics (descriptive analysis, confidence intervals, correlations, odds ratios, and regression analysis)

**TEACHING EXPERIENCE**

***Teaching Assistant(TA),* University of Florida,** Gainesville, FL

*August 2019 - Present*

* + - Served as a TA for the following courses: PHC 4101 Public Health Concepts, PHC 6001 Principles of Epidemiology, PHC 6002 Epidemiology of Infectious Disease
		- Demonstrate effective communication skills and the ability to engage and educate students on complex concepts.
		- Guest lecturer for a graduate-level course PHC 6003: Epidemiology of Chronic Disease and Disability-lectured on social determinants of health.
		- Actively collaborated with faculty members and fellow TAs to ensure cohesive delivery of course content and effective coordination of teaching activities, contributing to a collaborative teaching environment.
		- Enhance student learning by utilizing virtual instructional approaches, adapting to the evolving educational landscape, and employing innovative teaching methods to foster an interactive and engaging learning environment.
		- Managing and grading individual and group level projects, providing constructive feedback and guidance to students, and promoting their growth and development.
		- Actively involved in updating lecture material, ensuring the content remains current and relevant to the evolving field of public health. Proficient in operating learning management systems, such as Canvas, to create and manage course sites, facilitating seamless access to course materials for students.
		- Experience developing examination questions that assess students' comprehension and critical thinking skills, aligning with course objectives and promoting meaningful learning outcomes.
		- Cultivating effective communication skills, engaging with students and addressing their queries and concerns with clarity and professionalism.

***Graduate Adjunct Faculty,* Rollins College, Master of Public Health,** Winter Park, FL

 *August 2019 – May 2020*

* + - Developed and instructed two graduate-level courses, “Research Methods” and “Comparative Health Systems”
		- Mentored 13 students in the seminal “Public Health Capstone Project” in the Spring 2020 semester
		- Educated students on the state of US healthcare, population health management, risk factors for disease, and the cost of caring for the nation compared to 17 other countries
		- Mentored students in qualitative, quantitative, and mixed-methods proposal writing, research question formulation, and the foundations of epidemiologic study designs and survey research
		- Assist in the development and evaluation of questionnaires
		- Led students through multiple community needs assessments of Rollins College
		- Guided students to make professional technical presentations and posters
		- Experienced in organizing and managing a blended classroom (online/seated) with cooperative learning
		- Managed and maximized 165 minutes of class time four times a month with thought-provoking and engaging lectures and discussions

***Undergraduate Adjunct Faculty,* Stetson University,** DeLand, FL

*August 2018 – May 2020*

* + - Created “Introduction to Public Health” curriculum with colleagues focusing on the United States
		- Develop assignments and exams that provide students with insightful, in-depth, and individualized feedback to excel not only in current courses but in future college courses
		- Implement best learning practices for instructing and motivating first-year college students
		- Experience with working and reevaluating teaching strategies for non-native English speakers
		- Facilitate a classroom environment in which students discuss various topics and develop transferable skills such as time management, reading strategies, career exploration, and an appreciation of the scientific method

**PROFESSIONAL EXPERIENCE**

***Women Lead: Leadership Development Program for Graduate Students*, University of Florida,**  Gainesville, FL

*August 2023 – December 2023*

* Participated in Women Lead, a semester-long leadership development program for graduate students and postdocs aspiring to leadership roles in various career sectors.
* Developed heightened self-awareness, leading to increased confidence in decision-making and leadership abilities.
* Leveraged opportunities for small team discussions led by accomplished women leaders to refine my leadership style, fostering a collaborative and inclusive approach in professional settings.
* Severed as the liaison between prison inmates and instructors as part of the Community Education Project (CEP)
* Undertook comprehensive career path research, demonstrating a strategic approach to long-term professional development and a commitment to remaining informed about potential trajectories and life-long learning
* Displayed dedication to personal and professional development by consistently attending weekly virtual workshops, showcasing a commitment to ongoing growth and learning.

***Student Representative: Department of Epidemiology*, University of Florida,**  Gainesville, FL

*July 2023 – Present*

* Facilitate monthly meetings with the program director to discuss student concerns, ensuring effective communication between students and faculty.
* Advocate for student needs and resources, addressing sensitive topics with empathy and diplomacy.
* Collect, synthesize, and report student feedback to present at faculty meetings, contributing to ongoing program improvements and fostering a student-centric learning environment.
* Skillfully reported on significant updates from faculty and council meetings to fellow students, enhancing transparency and promoting a collaborative academic community.
* Addressing challenges and finding constructive solutions to enhance the student’s experience.
* Comfortable presenting updates and public speaking skills in both small and large groups clearly and diplomatically.
* Attend monthly Graduate Student Council meetings, emphasizing dedication to staying informed about broader university matters.
* Building positive relationships with fellow students, faculty, and administrators.

***Academic Support Fellow*, Tomoka Correctional Facility and Stetson University,** DeLand, FL

*August 2019 – May 2020*

* Severed as the liaison between prison inmates and instructors as part of the Community Education Project (CEP)
* Developed short- and long-term plans to address the academic needs of CEP students
* Collaborated with CEP instructors to develop best practices for study hall with limited technology and resources
* Designed tutoring and mentorship materials for students
* Produced quarterly reports on academic needs and resources for students
* Provided mini-lessons on issues related to research and writing to support classroom work, as needed
* Kept an organized schedule of weekly on-site visits to students

***Member, Global Non-Communicable Disease Center of London School of Hygiene& Tropical Medicine***

*Fall 2016 -Fall 2017*

* Actively contribute as a member of the Global Non-Communicable Disease Center at the London School of Hygiene & Tropical Medicine, engaging in research and initiatives aimed at addressing non-communicable diseases (NCDs) worldwide.
* Contribute to the dissemination of research findings and best practices through presentations and publications, sharing insights and contributing to the global knowledge base on NCDs.
* Organize and facilitate monthly journal club meetings, providing a platform for members to discuss and critically analyze research articles and advancements in the field of NCDs.
* Enroll and successfully complete the "Disease Outbreaks in Low and Middle-Income Countries" training course, gaining specialized knowledge and skills in managing and responding to disease outbreaks in resource-constrained settings.
* Successfully completed the "Improving the Health of Women, Children and Adolescents" course, broadening my understanding of the unique health challenges faced by these populations and strategies for promoting their well-being.

***Tutor, Health and Medical Statistics***, **Stetson University,** DeLand, FL

*January 2015 - May 2016*

* + - Tutored students biweekly in probability, hypothesis testing, Chi-Square tests, regression analysis, confidence intervals, Poisson distribution, and other statistical concepts and analysis software such as SPSS.
		- Adapted tutoring approaches to meet individual student needs and learning styles, fostering a supportive and conducive learning environment.

***President, Omicron Delta Kappa, National Leadership Honor Society*, Stetson University,** *DeLand, FL*

*August 2015 - May 2016*

* Established yearly goals for the organization
* Developed and oversaw new member recruitment initiatives
* Conducted weekly meetings with the executive board and bimonthly meetings with national members
* Established ODK-sponsored faculty and underclassman leadership awards
* Created an upperclassman and underclassman peer mentoring program
* Coordinate leadership conferences and workshops for students on campus
* Coordinate and conduct new member initiation ceremonies

***Admissions Assistant*, Stetson University,** DeLand, FL

*May 2014 – May 2016*

* Demonstrated strong leadership skills by effectively managing sensitive data coding and translation from applications, ensuring accuracy and confidentiality.
* Took on the responsibility of managing the daily mailing process for faculty and prospective students, displaying organizational and time management skills.
* Proofread emails before they are sent out to parents and/or applicants Played a key role in maintaining professional communication by proofreading emails before sending them out to parents and applicants, ensuring clarity and professionalism.
* Developed a keen attention to detail and an eye for accuracy, ensuring the integrity of admissions-related information and materials.
* Showcased excellent teamwork and collaboration by working closely with admissions staff, faculty, and prospective students, fostering a cooperative and supportive environment.

***Wellness Coordinator,* Florida Hospital (Now Advent Health),** Ormond Beach, FL

*August 2014 - May 2016*

* + - Expanded the hospital’s healthy-resources website focusing on recipes for gluten-free, vegan, and diabetic
		- Developed a year-long nutrition wellness program for healthcare workers in 5 regional Florida Hospital locations
		- Researched and wrote health articles monthly e-newsletter
		- Implemented and maintained physical activity programs including the “Take the Stairs Challenge” for both short (3 days) and long term (4 months) interventions
		- Educated patients on chronic conditions and effects of diet in the home or hospital room through the Community Outreach Program with the hospital’s Registered Dietician
		- Managed Change Your Life Challenge events and wellness programs
		- Survey data collection and coding

***Student Ambassador*, Stetson University,** DeLand, FL

*August 2013 – October 2015*

* Demonstrated leadership by conducting weekly university tours for prospective students, effectively showcasing the campus and its offerings.
* Took on the responsibility of training new ambassadors, providing guidance and support to help them excel in their roles.
* Developed strong telemarketing and fundraising skills through engaging with prospective students and donors, effectively communicating the university's mission and values.
* Exhibited strong interpersonal skills by building connections with prospective students, their families, and other stakeholders, fostering positive relationships and representing the university with professionalism and enthusiasm.
* Showcased excellent teamwork and collaboration by working closely with fellow ambassadors and university staff, fostering a supportive and cohesive environment.
* Displayed a high level of professionalism and dedication to representing Stetson University, contributing to its positive reputation.
* The role also allowed me to hone my interpersonal skills and build meaningful connections with prospective students and their families. These experiences have shaped me into a strong leader and researcher, equipped with the ability to effectively communicate, collaborate, and represent the institution with professionalism and dedication.

***President & Treasurer, Students Against Destructive Decisions*, Stetson University,** *DeLand, FL*

*August 2012 - May 2016*

* Event Coordinator
* Responsible for all grant proposals and fund-raising
* Developed and monitored budget and marketing strategies for all events
* Campus Liaison between
* Organized an event bringing former World Championship Wrestling champion Marc Mero and his Champion of Choices Foundation to address 250 university students about his struggles and consequences of drugs, alcohol, and bullying after earning a $1500 grant

**HONORS and AWARDS**

***Integrative Health Science Scholarship and Service Award,* Stetson University,** *DeLand, FL*

May 2016

* The department awards a Scholarship and Service Award to the best all-around student with the highest GPA and commitment to service to both the university and beyond

**PROFESSIONAL SERVICE**

***Member, Society for Epidemiologic Research (SER)***

*January 2023-Present*

***Mentor, Community Health-Oriented Mentorship Program (CHOMP), University of Florida,*** Gainesville, FL

*October 2021-July 2022*

***Member, Diversity Equity and Inclusion Implementation Task Force, University of Florida,*** Gainesville, FL

*February 2021-Present*

***Member, Diversity, Equity, and Inclusion Training Committee, University of Florida,*** Gainesville, FL

*August 2020-December 2020*

***Presenter and co-organizer, Coronavirus Webinar Series, Stetson University,*** DeLand, FL

*May 2020*

***Reviewer, Human Centered Design in Public Health, Stetson University,*** *DeLand, FL*

*June 2019 – August 2020*

***Member, Florida Public Health Association***

*Spring 2018 – Present*

***Public Health Academic Coordination Committee Member,*** Stetson University, DeLand, FL

*Fall 2018 -*

***Member and Abstract Reviewer, American Public Health Association***

*Fall 2017 – Present*

**PUBLICATIONS**

Johnson, A. M., Woodside, J. M., Johnson, A., **& Pollack, J. M**. (2017). Spatial patterns and neighborhood characteristics of overall suicide clusters in Florida from 2001 to 2010. American Journal of Preventive Medicine, 52(1), e1-e7

**Pollack, J.**, & Cheng, T. Y. D. (2021). Measurement Error in Body Mass Index May Affect Trajectory Modeling. American Journal of Public Health, 111(4), e22-e23.

**Pollack, J**., Dubare, S., Aduse-Poku, L (2022) Re: Association of Social Determinants of Health With Adherence to Second-generation Antipsychotics for People With Bipolar Disorders in a Medicaid Population". Medical Care. Accepted June 8, 2022

**Pollack, J.**, Yang, W., Schnellinger, E. M., Arnaoutakis, G. J., Kallan, M. J., & Kimmel, S. E. (2023). Dynamic prediction modeling of postoperative mortality among patients undergoing surgical aortic valve replacement in a statewide cohort over a 12-year period. JTCVS Open.

**CONFERENCE PRESENTATIONS**

* "Dynamic Prediction Modeling of Postoperative Mortality among Surgical Aortic Valve Replacement (SAVR) Patients in a State-Wide Cohort over a 12-year period" at SER's 2022 Annual Meeting.
* Presented “Dynamic Prediction Modeling of Postoperative Mortality among Surgical Aortic Valve Replacement (SAVR) Patients” at the University of Florida College of Public Health and Health Professions 36th Annual Research Day (February 2023)
* The Case of Spring Hill was presented during the Florida Public Health Association Conference “Striving for Excellence in Public Health-Health Equality” (July 2018)
* Presented Public Health and Community Needs Assessment Report of Spring Hill on behalf of Stetson University and the Volusia County Health Department, Florida Undergraduate Research Conference, Tampa, FL (February 2016) and during Stetson University Showcase (April 2016)
* Effects of Racial Segregation on Breast Cancer Surgery and Survival presented during the American Public Health Association "Cancer - Recent Findings in Public Health Epidemiology" (November 2016)

* Presented the Neighborhood Characteristics of Suicide, on behalf of Professor Asal Johnson and Joseph Woodside, Stetson University Showcase (April 2016)
* Presented on behalf of Stetson University and Professors Asal Johnson and Joseph Woodside, Social-Spatial Analysis of Suicide Cluster Rates in Florida, 2015 World Computer Conference, Las Vegas, NV (July 2015) and during the Florida Undergraduate Research Conference, Tampa, FL (February 2016)

**COMPUTER SKILLS**

***Analytic Software***

* Proficient in R and SPSS,
* Knowledge of STATA and SAS
* Preliminary experience with Geographic Information Systems (GIS)
* Qualtrics
* Covidence

***Education Platforms***

* Canvas
* Blackboard
* Zoom
* Banner Document Manager
* Knowledgeable in Microsoft Excel, Microsoft Word, PowerPoint, and WordPress

**Relevant Coursework**

* Measurement, Research Design and Statistics I & II Fall 2020-Spring 2021
* Epidemiology Seminar I & II Fall 2020-Spring 2021
* Measurement Error and Bias in Epidemiology Fall 2020
* Epidemiology Journal Club Fall 2020
* Introduction to Mixed Methods Research Spring 2021
* Precision Medicine in Epidemiology Spring 2021
* Data Management in Epidemiology Spring 2021
* Epidemiology Methods II Summer 2021
* Systems Thinking Summer 2021
* Foundations of Biomedical Informatics Fall 2021
* Introduction to Applied Survival Analysis Fall 2021
* Social Epidemiology Fall 2021
* Scientific Writing for Publication Spring 2022
* Health Outcomes Research in Vulnerable Populations Spring 2022
* Psychiatric Epidemiology Spring 2022
* Grant writing skills for Clinical and Health Research Summer 2022
* Ethics in Population Science Summer 2022
* Computational Data Science for Epidemiology Summer 2022
* Causal Artificial Intelligence for Health Research Fall 2022
* Advanced Epidemiology Methods III Fall 2022
* Topics in Precision Medicine and Public Health Informatics Spring 2023
* Data Visualization in Health Sciences Spring 2023
* Quality and Outcomes in Health Services Research Spring 2023