

**CRYSTAL NAJIB, MPH**

410-762-8816 | cnajib@umd.edu | Jessup, MD 20794

**ANALYTICAL SKILLS**

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Proficient in advanced statistical methods for public health and epidemiological research, including:

- Applied expertise in linear, multiple, and logistic regression, ANOVA, and nonparametric hypothesis testing.
- Skilled in analyzing outcomes using generalized linear models and matched-pair methods.
- Trained in the design and analysis of repeated measures and correlated outcomes in cohort studies.
- Competent in analyzing complex survey data accounting for stratification, weighting, clustering, and multistage sampling.
- Applied experience with Cox proportional hazards models, Poisson and log-binomial regression, propensity score models, and mediation/moderation analysis.

**STATISTICAL AND RESEARCH SOFTWARE**

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- **Statistical Tools:** SAS, R, Stata, Qualtrics
- **Qualitative Tools:** MAXQDA, NVivo, Dedoose
- **Presentation and collaboration:** Microsoft Office (Word, Excel, PowerPoint, Teams, SharePoint), Google Workspace (Docs, Sheets, Drive), Box, Zoom, Webex, Tableau
- **Reference Management:** Zotero, EndNote, Mendeley

**PROFESSIONAL EXPERIENCE**

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**University of Maryland College Park**

**College Park, MD**

Graduate Teaching Assistant

- EPIB-301 Introduction to Epidemiology 06/2025-12/2025
- PHSC-450 Social & Structural Inequities 01/2025-05/2025
- SPHL-602 Epidemiology & Biostatistics 08/2024-01/2025
- SPHL-603 Introduction to SAS 08/2024-01/2025
- BSCI-455 Neurobiology Laboratory 08/2022-01/2023
- BSCI-223 Microbiology Laboratory 01/2022-05/2022

Research Assistant – Department of Epidemiology and Biostatistics

07/2022-05/2023

- Collaborated with a team of scientists to advance theories, methods, and findings related to the use of Big Data for health equity research.
- Contributed to publications and assisted in reviewing grant and contract offers, as well as other post-award actions from Federal, State, and private sponsors.
- Assisted in drafting manuscripts, prepared tables and figures based on research findings, compiled bibliographies, supported the Principal Investigator (PI) in preparing and submitting manuscripts for publication, and addressed comments from reviewers and editors.
- Created abstracts for submission to local, state, and national professional society meetings and other conferences.
- Initiated, modified, and managed applications to the UMD Committee on Human Research for approval of research studies.
- Participated in the development of new grant proposals, which included conducting literature reviews, identifying databases, and conducting preliminary analyses.
- Supported qualitative social epidemiology studies by aiding in primary data collection, coding interview transcripts, and contributing to manuscript writing and review processes.
- Led the coordination of bi-weekly departmental seminars.

**Johns Hopkins University, Bloomberg School of Public Health**

**Baltimore, MD**

Senior Research Assistant – Department of Epidemiology

03/2022- 09/2024

- Oversaw the administrative and scientific implementation of the research protocol for the MACS/WIHS Combined Cohort Study involving over 4,000 active participants who reflect the characteristics of the U.S. population living with HIV or at risk for HIV.
- Collaborated with study Principal Investigators, faculty, and staff at Johns Hopkins and other study sites and working groups to support project planning and implementation.
- Acted as the primary liaison with research collaborators, working groups, and study sites to address questions and resolve issues related to research within the cohort.
- Supported investigators and study team members by contributing to the development of training materials and informational tools that facilitate the scientific research and publication processes within the MACS/WIHS study.
- Tracked study documentation, including IRB approvals, lab certifications, and registry match data.
- Drafted and prepared bi-annual reports on cohort research.
- Mentor, train, and supervised interns and students collaborating on the study.

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### National Cancer Institute (NCI)

Summer Fellow – Division of Cancer Epidemiology & Genetics

Rockville, MD

05/2022-08/2022

- Drafted an abstract summarizing the study "Comparative analysis of immunologic markers among individuals chronically infected with HBV vs. HCV in the REVEAL cohorts."
- Developed logistic regression models using the SAS statistical software.
- Conducted a comprehensive literature review to investigate the association of specific immune markers among individuals infected with HBV and/or HCV within the REVEAL cohort.
- Performed various statistical analyses, including Logistic Regression Analyses, Meta-analyses, Cox Proportional Hazard Model Analyses, and Sensitivity Analyses.
- Presented research findings through a poster at the NIH Poster Day.

### University of Maryland Baltimore County

Research Intern – Department of Psychology

Baltimore, MD

12/2019-05/2021

- Conducted transcription, qualitative coding, and analysis of StoryCorps interviews under the mentorship of Dr. Anne Brodsky.
- Utilized Dedoose and NVivo software for systematic coding of qualitative data.
- Produced an undergraduate honors thesis titled "Learning from StoryCorps: The Resilience and Empowerment of Afghan Immigrant Women."

Research Intern – STEM BUILD Program

06/2019-09/2019

- Collaborated with a research team under the mentorship of Dr. Erin Green to conduct wet lab experiments on the protein SET5, an analog of SMYD3, a protein commonly overexpressed in various cancers.
- Presented experimental findings in a poster session at the Summer Undergraduate Research Fest.

### PEER-REVIEWED PUBLICATION

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Nguyen, T., Merchant, J., Yue, X., Mane, H., Wei, H., Gowda, K., Makres, K., **Najib, C.**, Nghiem, H., Hswen, Y., Criss, S., Li, D., Glymour, M., Allen, A., Nguyen, Q. Visualizing A Decade of Tweets Referencing Racial/Ethnic Minorities in the United States, 2011-2021. *Epidemiology*. In Press.

### MANUSCRIPTS IN PROGRESS

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Dyer, T., Turpin, R., Boyd, D., Mittal, M., **Najib, C.**, Owusu, C., Watson, L., Kempf, M.C., Konkle-Parker, D., Tien, P.C., Wingood, G., Neilands, T.B., Johnson, M.O., Weiser, S., Arnold, E., Turan, J., Turan, B., Topper, E., Porcini, A. A Substance Abuse, Violence and Unhealthy Alcohol Use Syndemic Predicts Depression: A Longitudinal Study of Black Women Living with HIV in 4 U.S. Cities. *Under Review*.

Dyer, T., Turpin, R., Boyd, D., Mittal, M., **Najib, C.**, Owusu, C., Watson, L., Kempf, M.C., Konkle-Parker, D., Tien, P.C., Wingood, G., Neilands, T.B., Johnson, M.O., Weiser, S., Arnold, E., Turan, J., Turan, B., Topper, E., Porcini, A. Multi-discrimination and its Association with Substance Use, Violence, and Alcohol Use among Black Women Living with HIV in 4 U.S. Cities. *In Progress*.

### CONFERENCE PRESENTATIONS

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**Najib, C.** (2025, November). *A Substance Abuse, Violence and Unhealthy Alcohol Use Syndemic Predicts Depression: A Longitudinal Study of Black Women Living with HIV in 4 U.S. Cities*. Poster Presentation at the American Public Health Association (APHA)

**Najib, C.** (2025, April). *A Substance Abuse, Violence and Unhealthy Alcohol Use Syndemic Predicts Depression: A Longitudinal Study of Black Women Living with HIV in 4 U.S. Cities*. Poster Presentation at the University of Maryland Graduate Research Day

**Najib, C.**, Argirion, I., (2023, May). *Use of Non-steroidal Anti-inflammatory Drugs (NSAIDs), Aspirin, Ibuprofen, and Acetaminophen in Relation to Biliary Tract Cancers in the Biliary Tract Cancers Pooling Project (BiTCaPP)*. Capstone Presentation at the University of Maryland College Park

**Najib, C.**, Argirion, I., Koshiol, J. (2022, August). *Comparative analysis of immunologic markers among those chronically infected with HBV vs. HCV in the REVEAL cohorts*. Abstract and Oral Presentation for the National Institute of Health Poster Day.

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**Najib, C.**, Brodsky, A. (2021, May). *The Resilience and Empowerment of Afghan immigrant women in the United States*. Poster Presentation at the Society for Community Research and Action (SCRA)

**Najib, C.** (2021, April). *The Resilience and Empowerment of Afghan immigrant women in the United States*. Oral Presentation at the Undergraduate Research and Creative Achievement Day (URCAD)

**Najib, C.**, Green, E., (2019, August). *Overexpression of SET5, the analog of SMYD3 in different types of cancers*. Abstract and Oral Presentation for the Summer Undergraduate Research Fest (SURF)

**EDUCATION**

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**University of Maryland College Park (UMD)** **College Park, MD**  
*Doctor of Philosophy (Ph.D.)* in Epidemiology May 2027

**University of Maryland College Park (UMD)** **College Park, MD**  
*Master of Public Health (M.P.H.)* in Epidemiology May 2023

**University of Maryland Baltimore County (UMBC)** **Baltimore, MD**  
*Bachelor of Science (B.S.)* in Biological Sciences & Psychology May 2021  
Cum Laude honors recipient

**HONORS, AWARDS, AND MEMBERSHIPS**

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| Maryland Population Research Center-Student Research Affiliate | 01/2025 – Present |
| Maryland Public Health Association-Member                      | 05/2023 – Present |
| Psi Chi Honors Society-Member                                  | 08/2020 – 05/2021 |
| Undergraduate Research Award Recipient                         | 08/2020 – 05/2021 |
| Phi Theta Kappa Honors Society-Member                          | 07/2018 – 05/2019 |
| STEM Scholars Honors Program-Member                            | 08/2018 – 05/2019 |
| President of the Muslim Student Association                    | 08/2018 – 05/2019 |