CHRISTINE CHYU

Cupertino, CA| christine.chyu@gmail.com | (408) 839-7756

SUMMARY/KEY SKILLS

- Adaptability in fast-paced environments
- Critical thinking and problem-solving
- Cultural competency
- Infectious disease epidemiology
- Program management & implementation
- Quantitative & qualitative data analysis
- Systematic literature review
- Strong interpersonal & communication skills

EDUCATION & CERTIFICATIONS

R Basics & Beyond *(In Progress)*, **The GRAPH Network** *Jan 2024 - March 2024*

Johns Hopkins University | Bloomberg School of Public Health **Baltimore, MD**

Master of Health Science in Epidemiology | Concentration in Infectious Diseases | GPA: 3.91 *Aug 2021 - May 2023*

- **Thesis:** Disparities in severe outcomes among COVID-19 patients in the United States in the National COVID Cohort Collaborative, January 1, 2020 to December 31, 2022
- **Certificate in Vaccine Science and Policy**

New York University | College of Arts & Science **New York, NY**

Bachelor of Science in Neuroscience | Minor in Public Health | GPA: 3.67 *Aug 2017 - May 2021*

- **Relevant Coursework:** Epidemiology in a Global Health Context, Health & Society in a Global Context
- **University Honors Scholar**

WORK EXPERIENCE

Gavi, The Vaccine Alliance **Geneva, Switzerland**

Technical & Vaccine Policy Intern *June 2023 - Nov 2023*

- Provided technical support to the COVAX Facility by monitoring over 190 vaccine candidates' performance, contributing to evidence-based vaccine initiatives and ensuring national immunization commitments
- Updated COVID-19 vaccine pipeline and COVAX Facility policy positions to align with the latest regulatory and policy changes in the field
- Led a project by conducting literature review of over 50 texts about sex and gender considerations in COVID-19 immunization, identifying crucial lessons and gaps, and proposing strategic solutions to bolster access to immunization services
- Synthesized evidence and delivered over 10 concise presentations and reports post-briefings and events with key partners (e.g., INGOs, country governments, donors) to inform programmatic decision-making
- Developed and maintained strong working relationships with key stakeholders including INGOs, country governments, and academic partners
- Stayed up to date with dynamic COVID-19 epidemiology and other pressing global health challenges, ensuring efficient responses to emerging challenges in demanding result-driven environment

Johns Hopkins University **Baltimore, MD**

Fundamental Epidemiology Teaching Assistant *Jan 2023 - May 2023*

- Guided 25 students as a Fundamental Epidemiology teaching assistant by providing support through lab assignments and reinforcing key concepts
- Facilitated discussions on fundamental epidemiological concepts, including populations, study designs, and measures of association

Research Assistant *Feb 2022 - Dec 2022*

- Coordinated registration process for COVID-19 testing kits in Baltimore household study (Community Collaboration to Combat COVID-19), resulting in ~33% surge in participant engagement
- Supported study participants by addressing inquiries about research study, technical platform, and study logistics (e.g., testing kit drop-off), effectively reducing participant dropout rate

United Network for Organ Sharing (UNOS) **Richmond, VA**

Research Intern *June 2022 - Aug 2022*

- Applied advanced statistical analysis (Kaplain-Meier survival analysis) to monitor, evaluate, and visualize the beneficial impact of the U.S. Public Health Service Guideline recommendations on transplant recipients' 6-month post-transplant survival
- Presented comprehensive 1-year post-implementation monitoring report synthesizing data on changes in risk factor criteria for HIV, HBV, and HCV, providing valuable insights for informed decision-making

PROJECT EXPERIENCE & ACTIVITIES

Project: Modeling the Impact of Prefusion F RSV Vaccine during Pregnancy on RSV Transmission in Infants Based in Argentina

- Collaborated as a team to plan, design, and develop an SEIR disease dynamics model to visualize impact of novel maternal vaccine (RSV F protein) on RSV transmission among infants (less than 1 year)
- Tested different rates of vaccine coverage, efficacy, and waning immunity on RSV transmission using ggplot2 package in three scenarios, underscoring the introduction of the novel vaccine as beneficial in reducing disease transmission among vulnerable populations

SKILLS

Computer: LaTeX, Microsoft Excel, Microsoft PowerPoint, Microsoft Word, Python, R, REDCap, SAS, SharePoint, SQL

Languages: English, French, Mandarin

REFERENCES

Lea Kagan

Contact: lphilippekagan@worldbank.org | +1 (202) 817-5412

***Note:** Lea was my manager when I interned at Gavi, The Vaccine Alliance. She is currently working at the World Bank.*

Dr. Shaun Truelove

Contact: shauntruelove@jhu.edu

***Note:** Dr. Truelove was my thesis advisor when I was a master's candidate at Johns Hopkins Bloomberg School of Public Health. He is currently working in the Infectious Disease Dynamics (IDD) group and the International Vaccine Access Center (IVAC) at Johns Hopkins.*