CINDY J. PANG

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EDUCATION

University of California, Los Angeles	**2023-2028**

Los Angeles, CA
Ph.D. Biostatistics

University of North Carolina at Chapel Hill	**2019-2023**

Chapel Hill, NC
B.S.P.H Biostatistics; B.A. Mathematics; Minor: English

EXPERIENCE

Carolina Population Center	**09/2021 - 05/2023**
Undergraduate Research Assistant	*Chapel Hill, NC*

Advisor: Dr. Paul Delamater, Department of Geography
· Conducted data analysis and data visualization on COVID-19 immunity in North Carolina using R
· Reviewed scientific literature and authored manuscript summarizing results
· Published as lead author in *Space and Spatiotemporal Epidemiology* for an article summarizing findings on spatial relationships and immunity on the COVID-19 Delta Wave in North Carolina counties

Carolina Population Center Internship Program	**05/2021 - 07/2021**

· Led the process of cleaning and consolidating a large spatiotemporal database of COVID-19 cases and vaccination in R
· Create high (geographic) resolution estimates of vaccination coverage over time and assisted in scientific literature searches, created maps and graphics, and produced narrative text describing data and methods for a report
· Presented research findings to Program Director, Executing, other interns, and at the Summer Undergraduate Research Pipeline Symposium for a general audience

William W. and Ida W. Taylor Summer Undergraduate Research Fellowship (SURF)
05/2022-08/2022
Fellowship Recipient   *Chapel Hill, NC*
· Awarded $4000 to study causal mechanisms between population characteristics and localized disease outbreak severity for North Carolina Counties during the Delta Wave of the COVID-19 pandemic
· Will be presenting poster at upcoming Undergraduate Symposium to faculty and students

Directed Reading Program in Mathematics	**08/2021 - 12/2021**
Participant	*Chapel Hill, NC*

· Paired with a graduate student in mathematics to work on a semester-long independent study project in Nonlinear Dynamics
· Completed 4 hours of reading a week on *Nonlinear Dynamics and Chaos* by Steven Strogatz
· Delivered an informal 15-minute oral presentation with a 5-minute Q&A to an audience

Pizzagalli Lab, Laboratory for Affective and Translational Neuroscience - McLean Hospital (Harvard Medical School)   **06/2019 - 07/2019**
Summer Intern Student   *Belmont, MA*

Advisors: Dr. Yuen Siang-Ang, Dr. Diego Pizzagalli
· Programmed an experiment in MATLAB and pilot tested it in healthy community subjects

· Developed hypothesis that implicit and explicit reinforcement learning are distinct transdiagnostic constructs across psychiatric diagnoses

PROJECTS

Estimating COVID-19 Incidence in NC Before Vaccination   **09/2022-04/2023**

· Developed a method to estimate COVID-19 Incidence during the pre-vaccination era in NC by leveraging spatial characteristics with Monte-Carlo Simulation and hierarchical modeling using **R** and **high-performance computing (UNC Longleaf)**

Monkeypox Mapping   **06/2022 - 09/2022**
     URL: cindypang.shinyapps.io/mpx_mapping/

· Created data visualizations via mapping and trendlines for global incidence and cumulative case and suspected counts for monkeypox pandemic
· Launched website with user-friendly interface using RShiny and RMarkdown

HONORS & AWARDS

2023	Three Year Service Award, *Carolina Housing*
2022	William W. and Ida W. Taylor Summer Undergraduate Research Fellowship (SURF) Award, *University of North Carolina*
2022	Summer Institute for Statistics and Modeling in Infectious Diseases (SISMID) Scholarship, *University of Washington Department of Biostatistics*
2022	Phi Beta Kappa, *University of North Carolina*
2021	Honors Carolina, *University of North Carolina*

PUBLICATIONS

1. **Cindy Pang**, Paul L. Delamater, Spatiotemporal Characteristics of the SARS-CoV-2 Delta Wave in North Carolina, *Spatial and Spatio-temporal Epidemiology* (2023), doi: https://doi.org/10.1016/j.sste.2023.100566

POSTERS

04/2023	**Pang C.J.** Estimating COVID-19 Incidence During the Pre-Vaccination Era in North Carolina Counties by Leveraging Spatial Characteristics. *UNC Celebration of Undergraduate Research, Chapel Hill, NC*

PRESENTATIONS

12/2021	The Nonlinear Dynamics of Infectious Disease Models (SIR). *Directed Reading Program (DRP), UNC Department of Mathematics.*
07/2021	Estimating Localized COVID-19 Immunity Levels for North Carolina Counties. *Summer Undergraduate Pipeline (SUP) Research Symposium (virtual), UNC-Chapel Hill*

TECHNICAL SKILLS

Programming Languages	R, Python, SAS, MATLAB, Java, STATA
Online data platforms	Qualtrics
Software	Github, LaTeX

CAMPUS INVOLVEMENT

Carolina Housing 07/2020 - 05/2023
Residential Advisor *Chapel Hill, NC*

· Oversee up to 30 student residents per semester; provide mentoring and serve as a mandated reporter
· Plan and organize 8 community programs per semester to create an inclusive housing environment

Residential Hall Association (RHA) Craige Community Government 11/2021 - 05/2023
Residential Advisor Liason *Chapel Hill, NC*

· Connected Community Government members with on-campus resources to plan programs for residential engagement
· Facilitated communication between Housing Leadership, Residential Staff, and Community Government
· Participated in residential engagement program planning and execution

UNC Department of Biostatistics, Inclusive Excellence Committee 10/2022 - 05/2023
Undergraduate Representative *Chapel Hill, NC*

· Support department initiatives for diversity and inclusion