# CHRISTINA MICHAEL

Philadelphia, PA │ 631.2029.731 │ chrisrm@upenn.edu │ Portfolio

## EDUCATION

**University of Pennsylvania**, *Philadelphia, PA*                                          *May 2023*

Master of City and Regional Planning

- Concentration in Housing, Community, Economic Development and Smart Cities.

- Relevant Coursework in Quantitative and Geospatial Planning in R, Python and ArcGIS, Transportation Planning with PTV Vissim and Visum, Public Policy Analytics, Cloud Computing, and Housing and Community Development.

**Manipal School of Architecture and Planning**, *Karnataka, India*                                          *May 2021*

Bachelor of Architecture

## RELEVANT WORK EXPERIENCE

**The Housing Initiative at Penn**, *Philadelphia, PA*                                          *May 2022- present*

Research Assistant and Data Analyst

- Contributed to the statewide, comprehensive housing report for the Pennsylvania Housing Finance Authority (PHFA). Analyzed trends in population and housing affordability in Pennsylvania from 2010-2020 and created individual county profiles for the report.

- Wrangled, cleaned, feature engineered, analyzed and visualized housing data from sources like ACS, CPS, AHS, HMDA, CHAS, PUMS, PiTC, Policy Map etc., using R Studio and Python.

- Contributed to the Emergency Rental Assistance (ERA) Tenant Impact Evaluation Report for Louisville, Denver, Oregon, Allegheny, Northern Ponca Housing Authority and the Cheyenne River Housing Authority.

**DESIGN Architects**, *Kerala, India*                                          *May 2020- April 2021*

Architecture Intern

- Facilitated design development, model building, visualizations and construction administration of residential and commercial projects.

## RELEVANT ACADEMIC PROJECTS

**Urban Spatial Analytics Practicum**, *University of Pennsylvania*                                          *Spring 2023*

Student Collaborator

- Worked with Community Legal Services (CLS) and utilized ML tools to identify properties with high eviction frequency, to allocate resources to prevent at-risk tenants from potential eviction and displacement.

**Planning Workshop**, *University of Pennsylvania*                                          *Spring 2022*

Student Collaborator

- Liaised with Habitat for Humanity to propose a community-oriented development plan for the neighborhoods of Sharswood and North Central in Philadelphia.

**Master's Thesis**, *University of Pennsylvania*                                          *Fall 2022- Spring 2023*

- Working Title: Redevelopment and Preservation of Informal Built Environments: A case study of Dharavi, Asia's largest urban slum.

## SKILLS

- Geospatial Planning           ArcGIS Pro (vector & raster), R Studio, Python
- Statistical Analytics          Predictive Modeling, Regression Based Analysis, Machine Learning in R & Python
- Transportation Planning     PTV Vissim, PTV Visum
- Database & Programming    PostgreSQL, PostGIS, JavaScript, HTML
- Urban Design                    Adobe Suite (Ps, Ai, Id, Ae), AutoCAD, Rhino, Grasshopper, SketchUp, Revit