

HASSAN MOHAMMED YAKUBU

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RESEARCH PROFILE

I examine how urban form and infrastructure systems shape household energy outcomes in rapidly urbanizing African cities. My work combines spatial analysis, mixed methods, and planning theory to produce policy-relevant evidence on the energy trilemma.

RESEARCH AREAS

Urban form and energy transitions; sociospatial inequality; climate urbanism; African urbanization.

EDUCATION

Cornell University, PhD Candidate, City and Regional Planning, 2023-present

Dissertation: *Urban Form and Residential Energy Dynamics: Exploring Sociospatial Patterns of the Energy Trilemma in Accra's Urban Landscape*

Committee: Stephan Schmidt (Chair), Nancy Brooks, Chuan Liao

University of Cambridge (Wolfson College), MPhil, Planning, Growth and Regeneration, 2015-2016

Ecole Nationale d'Architecture, Rabat, Diplome d'Architecte (M.Arch equivalent), 2008-2014

WORKING PAPER

1. **Yakubu, H.**, Liao, C., & Schmidt, S. (2025). *Spatial Heterogeneity in Residential Energy Cultures: Evidence from Accra, Ghana*. SSRN. <http://dx.doi.org/10.2139/ssrn.5954376>
2. **Yakubu, H.** (2026). *Bounded Energy Cultures: The Structural Role of Urban Form in Accra, Ghana*.

PEER-REVIEWED PUBLICATIONS

1. Mrani, R., Chenal, J., Radoine, H., & Yakubu, H. (2025). The Quiet Architecture of Informality: Negotiating Space Through Agency. *Buildings*.
2. Mrani, R., Chenal, J., Radoine, H., & Yakubu, H. (2025). Housing Informalities Between Formal Designs and Informal Reality. *Architecture*, 5(1), 18.
3. Radoine, H., Bajja, S., Dakyaga, F., Celik, A., Kamana, A., Yakubu, H., & Chenal, J. (2024). Modelling the dynamics of urbanization for urban sustainability in West Africa. *Journal of Urban Management*, 13(4), 580-595.

4. Mharzi Alaoui, H., Radoine, H., Chenal, J., Hajji, H., & Yakubu, H. (2022). Deep building footprint extraction for urban risk assessment: Remote sensing and deep learning based approach. *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, 48, 83-86.
5. Mharzi Alaoui, H., Radoine, H., Chenal, J., Yakubu, H., & Bajja, S. (2022). Understanding the urban middle-class and its housing characteristics: Case study of Casablanca, Morocco. *Urban Science*, 6(2), 32. <https://doi.org/10.3390/urbansci6020032>

RESEARCH FUNDING

Individual Awards

- Cornell Global Hubs Seed Grant, Cornell University (2024-2025): USD 5,000
- Einaudi Travel Grant for Graduate Students, Cornell University (2023-2024): USD 2,000

Collaborative Grants (Total Project Budget)

- Promoting Digital Inclusion in Education in African Cities and Regions, ITU Connect2Recover (2021-2022), USD 42,000 total. Role: local coordination, data collection/analysis, and report drafting.
- Urban Structure and COVID-19 Spread: Urban Health Performance Index, Social Innovation Lab UM6P (2022), USD 50,000 total. Role: proposal and work package development.
- Sustainable, Resilient and Smart African Cities Project, Mazagan Urban Development Agency (2020-2023), USD 700,000 total. Role: project coordination support.

ACADEMIC APPOINTMENTS

- Lead, Pedagogical Development and Innovation Unit, School of Architecture, Planning and Design, Mohammed VI Polytechnic University, 2022-2023
- Architect / Research Analyst, School of Architecture, Planning and Design, Mohammed VI Polytechnic University, 2018-2022

TEACHING EXPERIENCE

Cornell University

- Graduate Teaching Assistant, CRP 5530: Land Use and Spatial Planning Methods (Spring 2026), Cornell University
- Graduate Teaching Assistant, CRP 5130: Introduction to Planning Practice and History (Fall 2025), Cornell University
- Graduate Teaching Assistant, CRP 2200: Community Engagement in the City: Qualitative Methods (Spring 2025), Cornell University
- Graduate Teaching Assistant, CRP 5080: Introduction to GIS for Planners (Fall 2024), Cornell University

Mohammed VI Polytechnic University

- Year 2 Architecture Studio Instructor, School of Architecture, Planning and Design (2020-2023)
- Year 4 Urbanism Seminar Instructor, School of Industrial Management (EMINES) (2021, 2022)

FELLOWSHIPS AND METHODS

Sage Fellowship and Graduate School Dean's Scholar (Cornell, 2023-2027); Cambridge Commonwealth Shared Scholarship (2015-2016).

Methods: ArcGIS/QGIS, Stata, SPSS, Python, Kobo Toolbox. Languages: English, French, Dagbani.