

# SHAMIL SHIRISH KHEDGIKAR

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## LAB AFFILIATION

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- City Science

## EDUCATION

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### Cornell University

Master of Regional Planning • GPA: 3.62/4.3

Specialization: *Economic Development and Policy Analysis*

Minor: *Real Estate Development and Finance*

Ithaca, New York

December 2019

### School of Planning and Architecture Delhi

Bachelor of Physical Planning • Graduated in First Division (63.15%) • Equivalent GPA: 3.6/4.0

Delhi, India

May 2015

## PUBLICATIONS

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- Chhatre, A., Sinha, M., **Khedgikar, S.** (2019). Promotion of cultivation and consumption of Nutri-cereals in scheduled areas of Maharashtra. *Technical Report*. Bharti Institute of Public Policy. Indian School of Business.
- Chan, V., Frantz, G., Kong, L., **Khedgikar, S.**, Tuttle, D., Xie, E., Yuntao, R.H., Zeich, M. (2016). Scenic Resource Inventory for Hyde Park. *Technical Report*. New York State Water Resource Institute.
- **Khedgikar, S.** (2015). Implications of Acquisition of Land for Development of Special Economic Zones. *Thesis*. School of Planning and Architecture Delhi

## UNPUBLISHED RESEARCH

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- (*In Preparation*) India Under Construction. *Working Paper*. Joint work with Ashwini Chhatre and Ruth DeFries.
- (*In Preparation*) Infrastructure Development, Land Acquisition and Property Rights. *Ernst&Young - Institute for Emerging Market Studies Working Paper*. Indian School of Business. Joint work with Ashwini Chhatre and Meenakshi Sinha.
- **Khedgikar, S.** (2019) Role of Public Perception in Planning Frameworks. *Masters Research Project*. Cornell University.
- **Khedgikar, S.** (2018) Governance in India: Policies, Provisions and Reforms. *Technical Report*. Department of Real Estate. Wharton School of Business.

## GRANTS AND AWARDS

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### Ernst and Young Initiative for Emerging Market Studies

August 2019

- Received an academic grant of \$17000 for research on *Infrastructure Development, Land Acquisition and Property Rights*. Joint work with Ashwini Chhatre (PI) and Meenakshi Sinha.

### OrangeCone - US Finalist in World Government Summit 2018

August 2019

- Stood 4th in the GovHacks Series final amongst 40 finalists, representing *OrangeCone* as technical lead.

### Udacity Grow with Google Scholarship

January 2018

- Received year-long scholarship for coursework and training on Android and Web Development from Udacity.

### Explorations in Nuclear Research

December 2016

- Acknowledged by Steven B. Krivit for valuable archival research assistance in the publication of three volumes of research in the field of Low Energy Nuclear Reactions (LENR). Research undertaken on the Hans Bethe papers, [ca. 1931]-1995 and Ernest J. Sternglass papers, [ca, 1952]-2008 at the RMC, Kroch Library, Cornell University.

### All India Engineering Entrance Examination

May 2011

- Secured All India Rank of 720 out of 10,53,807 students.

### Regional Mathematics Olympiad

October 2008

- Secured 19th Rank out of 24,000 students and achieved candidacy in Indian National Mathematics Olympiad 2009.

## RESEARCH AND TEACHING EXPERIENCE

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### Indian School of Business

Hyderabad, India

Research Associate, Department of Economics and Public Policy - Prof. Ashwini Chhatre

December 2018 onwards

- Developing *India Pulse*: a Big-Data Analytics platform that leverages the Indian digital identity *Aadhaar* for effective last-mile delivery of welfare schemes and proactive, data-driven decision making.
- Successfully co-wrote a \$17000 grant application to the Ernst&Young - Institute for Emerging Market Studies.
- Facilitated three partnerships between the Indian School of Business and Government of Maharashtra on projects related to digital identity, community forest rights and sustainable land use.
- Mentored two summer interns on programming in R and Python to conduct data analysis and build visualizations.
- Assisted with research on two state government committees and drafted a policy report on the introduction of Nutri-cereals in public distribution systems for improving nutritional outcomes of marginalized population.

### The Wharton School, University of Pennsylvania

Philadelphia, Pennsylvania

Research Assistant, Real Estate Department - Prof. Mariaflavia Harari

August 2018 - December 2018

- Analyzed the impact of road closures on urban enclaves and cantonments across India.
- Assisted doctoral students in data collection and exploratory analysis for drawing distinctions between *DeJure* and *DeFacto* urban and rural areas in India.
- Drafted a comprehensive report on the state of governance in India at the national, regional and local level.

### Cornell University

Ithaca, New York

Research Associate, Clarence Stein Institute - Prof. Jeffrey Chusid

August 2017 - August 2018

- Envisioned, designed and deployed an interactive web-based application for accessing and analyzing research output generated by the institute.
- Assisted the Director of the Institute in assessment of grant awards for the 2018-2019 academic cycle.
- Conducted archival research on the Clarence Stein papers, 1905-1983 and used relevant material for development of a new website for the institute

Research Assistant to Dean of Studies - Prof. Glenn Altschuler

May 2017 - August 2017

- Assisted Dean of Summer Sessions in conducting archival research on infrastructure projects in New York City to evaluate the changing perception of public towards an increase in accessibility. (*Book Forthcoming*)

Graduate Research Assistant - Prof. Jennifer Minner

January 2017 - May 2017

- Studied World Expositions to develop strategies for management of large infrastructure projects and their impact on sustainability and resilience of the urban environment.

Research Assistant to Department Chair - Prof. Jeffrey Chusid

January 2017 - May 2017

- Designed and deployed a new blog for the department and drafted a content development strategy encompassing all departmental student organizations.
- Developed an interactive geospatial database for visualizing impact of over thirty years of research undertaken in the Departments of City and Regional Planning and Department of Historic Preservation.

Teaching Assistant - Prof. Muna Ndulo

August 2016 - December 2016

- Lead weekly discussions in the Seminar on Issues in African Development. Graded term papers.

Graduate Research Assistant - Late Prof. Susan Christopherson

August 2015 - August 2016

- Examined and analyzed the impact of Shale gas development beyond well pad sites on employment, residential housing market and risk propagation along the transportation supply chain.
- Analyzed a fracking accidents database maintained by Earthjustice and classified the accidents and the broader risks based on classifications developed in prior literature.
- Developed state-level summaries on changes in the number of establishments, employment, and wages as part of a larger literature review on the boom-bust cycles in regions of shale gas development.

## PRESENTATIONS

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### Second DIRI Conference, ISB Hyderabad

October 2019

- Topic: 'Aadhaar Pulse: Augmenting bureaucratic decision making by leveraging digital identity in welfare schemes'.  
Joint work with Ashwini Chhatre, Avik Sarkar, Prakhar Sharma and Anupam Purwar.

### Speaker at Becker House, Cornell University

August 2017

- Topic: 'Opportunities for Transnational Infrastructure Development in Africa: Perspective for 2030.'

## TECHNICAL STRENGTHS

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- **Geospatial Analysis & Design** ArcGIS, QGIS, ESRI CityEngine and Tableau
- **Economic and Financial Modeling** GAMS, ARGUS, IMPLAN and Excel
- **Programming** R, Python, JavaScript, SQL, VBA
- **Writing, Editing and Publishing** L<sup>A</sup>T<sub>E</sub>X , Adobe Creative Suite, Microsoft Office

## INDUSTRY EXPERIENCE

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### OrangeCone LLC

Arlington, VA

Urban Engagement Consultant

August 2017 - December 2018

- Refined user interface and user experience for the mobile application to improve public space management through crowdsourcing.

### Scenic Hudson

New York City, New York

Graduate Student Consultant

August 2016 - December 2016

- Worked with a team of seven graduate students to create and implement a technical framework for delineating land parcels for the preservation of scenic resources in the Hudson Valley, focusing on town of Hyde Park.
- Developed an analytical framework to delineate the scenic parcels in a region based on topographic elevations, visibility to traveler and ownership of land and adjacencies.

### Human Scale Studio

Detroit, Michigan

Project Manager - Summer Internship

Summer 2016

- Lead a team of two interns and developed a *Place Plan* for the neighborhood of Corktown in Detroit; presented results to the community members and the board of directors of the Corktown Economic Development Corporation.
- Assisted in planning and resource management for two award-winning projects in the Knight Foundation Cities Challenge 2016; *Open Streets Detroit 2016* and *The People First Project*.

### Village of Watkins Glen

Watkins Glen, New York

Graduate Student Consultant

January 2016 - May 2016

- Collaborated with graduate architects, engineers, and planners to develop strategies, design proposals and pro-forma for redevelopment of a decommissioned water treatment plant.
- Completed due diligence for the development using *Envision Tomorrow*; a predictive analytics tool used to generate development of metrics such as ROI and Leveraged IRR for modular development.

### State Department of Town Planning and Valuation, Maharashtra

Pune, Maharashtra, India

Policy Analyst - Summer Internship

Summer 2013 & Summer 2014

- Forecasted demographic and development trends at the District level for the town of Aurangabad, focusing on infrastructure requirements and capacity building; report was incorporated in the District Development and Tourism Plan for 2025.
- Drafted the first policy report for the creation of Wayside Amenities on State Highways in the State of Maharashtra; policy report has been adopted as a Government Resolution by the State of Maharashtra, India as of January 2015.

## LEADERSHIP AND VOLUNTEERING

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- Cornell India Association, Ithaca, New York - Volunteer 2017 - 2018
- Dean Savage Park Fundraiser, Detroit, Michigan - Volunteer Summer 2016
- National Organization for Students of Planning, India - Unit Treasurer 2014-2015
- School of Planning and Architecture Delhi, India - Cultural Secretary & Hostel Secretary 2012-2014
- Manav Gram Vikas Sansthan (NGO), Aurangabad, Maharashtra - Volunteer Summer 2015
- Dilasa Janavikas Pratishthan (NGO), Aurangabad, Maharashtra - Volunteer Summer 2012