

Sudeshna Ghosh

Associate Professor
Department of Geography and Regional Planning
Indiana University of Pennsylvania

Curriculum Vitae

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Educational Background:

University of Cincinnati, Cincinnati, OH, United States

PhD in Regional Development Planning (2008 – 2013)

Major: Regional Development Planning; Minor: Regional Development Methods

Dissertation Title: "Major Employers in Small Towns: Modeling the Spatio-temporal Impacts on Land Use and Land Cover Changes at a Regional Scale."

GPA: 3.89 / 4.00

Indian Institute of Technology (IIT), Kharagpur, India

M.C.P, Master of City Planning (2005-2007)

Thesis Title: "Organizing the future growth of Kolkata Metropolitan Area through Rejuvenation of Howrah."

GPA: 8.95 / 10.00

Bengal Engineering and Science University (BESU), Shibpur, India

B.Arch, Bachelor of Architecture (2000-2005)

Thesis Title: "The New Railway Terminal Building for Kolkata, at Chitpur."

Score: 78.68% (84.29% in Bachelor Thesis)

Professional Background:

- **Associate Professor**, Department of Geography and Regional Planning, Indiana University of Pennsylvania, PA, US. (Aug 2018 – present)
- **Assistant Professor**, Department of Geography and Regional Planning, Indiana University of Pennsylvania, PA, US. (Aug 2013 – Aug 2018)
- **Instructor**, School of Planning, DAAP, University of Cincinnati, OH, US. (Jan 2012 – Jun 2013)
- **Graduate Research and Teaching Assistant**, School of Planning, DAAP, University of Cincinnati, OH, US. (Aug 2008 – Dec 2012)
- **Senior Officer Co-ordination**, DLF Commercial Developers Ltd., Kolkata, India. (May–Aug 2008)
- **Senior Graduate Engineer**: DLF Commercial Developers Ltd., Kolkata, India. (May 2007 – Apr 2008)

Research and Teaching Interests:

Areas include: Land Use and Land Cover Change Modeling; GIS Applications for Spatial Analysis of Urban Issues; Community Economic Development Planning; Regional Planning and Development; Small Town and Rural Development Planning; Planning in the Developing World.

Awards and Fellowships:

- University Senate Research Committee - **Research Award**, Indiana University of Pennsylvania, 2016-2017 (awarded May 2016), \$700
- Principal Investigator Mentorship Academy – **Research Development Award**, IUP Research Institute (awarded May 2016).
- College of Humanities and Social Sciences – **Research Award**, Indiana University of Pennsylvania, 2015-16 (awarded May 2016), \$2,000
- College of Humanities and Social Sciences – **Special Award**, Indiana University of Pennsylvania, 2015-16 (awarded November 2015), \$2,000
- College of Humanities and Social Sciences – **Research Award**, Indiana University of Pennsylvania, 2014-15 (awarded March 2015), \$2,000
- Journal of Planning Education and Research (JPER) Scholarship for Writing Workshop, 2014 (awarded April 2014), \$1,000
- University Senate Research Committee - **Research Award**, Indiana University of Pennsylvania, 2013-2014 (awarded April 2014), \$1,750
- **Research Fellowship**, Graduate Student Governance Association, University of Cincinnati, 2012-13, \$1,500
- The James R. Webb Foundation **Travel Award**, American Real Estate Society, 2012, \$1,000
- Graduate Student **Research Fellowship**, University Research Council, University of Cincinnati, 2011, \$3,000
- **Scholarship** for ACSP PhD Workshop, Association of Collegiate Schools of Planning, 2011, 1,500
- Ladislav and Vilma Segoe **Scholarship**, Ladislav and Vilma Family Foundation, 2010-11, \$4,500
- University Graduate **Scholarship**, University of Cincinnati, 2008-2010 & 2011-12, \$21,180/ year
- **Research Assistantship**, School of Planning, University of Cincinnati, 2008-2010 & 2011-12, \$12,000/year
- Graduate Studies Scholarship, Ministry of Human Resource Development, Govt. of India, 2005-2007

Teaching Profile:

Assistant Professor, Department of Geography and Regional Planning, Indiana University of PA

Undergraduate (■), Graduate (■), and Dual-Level (■) Courses Taught:

- **Global Cities: Issues for Planning and Development**, RGPL 103 ■
- **Planning History**, RGPL 203 ■
- **Introduction to Planning**, RGPL/GEOG 350/550 ■
- **Planning Methods**, RGPL/GEOG 352/552 ■
- **Community Planning Practicum/ Research Seminar**, RGPL/ GEOG 412 ■
- **Planning Theory**, RGPL/GEOG 468/568 ■

- **Quantitative Techniques in Geography and Planning**, GEOG 612 ■
- **Special Topics/ Study Abroad Course: Field Research in India**, GEOG 481/581 ■■ (Co-Instructor)

Adjunct Faculty, School of Planning, University of Cincinnati, Cincinnati, OH

Undergraduate (■■), and Graduate (■■) Courses Taught:

- **Statistics for Urban Setting**, PLAN/URBAN 2045, Fall Semester 2012-13 ■■
- **Graduate Capstone Problem in Urban Planning**, PLAN 524, Spring Quarter 2011-12■■(Co-Instructed)

Teaching Assistant, School of Planning, University of Cincinnati, Cincinnati, OH

- **Issues in Economic Development Planning**, PLAN 710, Winter Quarter 2010-11
- **Structure and Dynamics of Human Settlement**, PLAN 716, Winter Quarter 2009-10 & 2010-11
- **Policy Planning for Economic Development**, PLAN 719, Fall Quarter 2010-11
- **Statistics for Planners**, PLAN 753, Fall Quarter 2009-10

Teaching Assistant, Department of Architecture & Regional Planning, IIT Kharagpur, India

- **Undergraduate Architectural Design Workshop** , First Semester of academic year 2006-07

Research and Scholarly Activities:

Peer-Reviewed Publications:

A. Journal Articles

- **Ghosh, Sudeshna**, and Carla Chifos. 2017. The 1985 siting of a Toyota manufacturing plant in rural Kentucky, USA: The ensuing land use change and implications for planning. *Landscape and Urban Planning*. Vol. 167: 288-301.
- **Ghosh, Sudeshna**. 2016. Integrating Geographic Information System (GIS) and Repeat Sale Analysis to assess the impacts of fracking on Housing Market in Greene County, PA. *The Pennsylvania Geographer (Special Issue on Fracking)*. Vol. 54 (1): 19-40.
- **Ghosh, Sudeshna** and Siddhartha Sen. Evolution of Gated Communities as a Dominant Planning Paradigm: Case of Kolkata, India. (Work in Progress)

B. Books and Book Chapters

- Siddhartha Sen and **Sudeshna Ghosh** (forthcoming 2019). *An Architectural Guide to Kolkata*. Barcelona: Altrim Publishers.
- **Ghosh, Sudeshna**, Sweta Byahut and Calvin Masilela. 2018. Metropolitan Regional Scale Smart City Approaches in a Shrinking City in the American Rust Belt – Case of Pittsburgh, Pennsylvania in “Smart Metropolitan Regional Development” (Chapter 17) Edited by T. M. Vinod Kumar. Singapore: Springer.

C. Review Articles, Book Reviews & Online Research Articles/ Blogs

- **Ghosh, Sudeshna**, and Carla Chifos. 2018. Without proper planning, large-scale industrial growth can be a curse rather than a blessing for rural communities. The London School of Economics and Political Science's American Politics and Policy (*USApp*) - *American Politics and Policy Blog* (01 May 2018). Blog Entry. available at <http://eprints.lse.ac.uk/90048/>
- **Ghosh, Sudeshna**, 2015. Review Article on Urban Design in Contemporary Cities: Critical review of "Cities by Design: The Social Life of Urban Form" by Fran Tonkiss; "Explorations in Urban Design: An Urban Design Research Primer" Ed. by Matthew Carmona; and "The Nature of Urban Design: A New York Perspective on Resilience" by Alexandros Washburn. *Journal of Urban Technology*, Vol. 22 (3), 121-126.
- **Ghosh, Sudeshna**. 2015. Book review of "Changing Lanes: Visions and Histories of Urban Freeways" by Joseph F.C. DiMento and Cliff Ellis. *Pennsylvania Geographical Society*. Vol. 53 (2).

D. Doctoral Dissertation

- **Ghosh, Sudeshna**, 2013. *Major Employers in Small Towns: Modeling the Spatio-temporal Impacts on Land Use and Land Cover Changes at a Regional Scale*. Peer reviewed **Doctoral Dissertation**, University of Cincinnati.

Research and Grant Application Activities:

Update (2014-15)

Principal Investigator (PI)

- Urban Brownfield Development as a Tool for Sustainable Urban Future in the Global North and South Countries. Proposed Research Workshop in Collaboration with Indian Institute of Technology, Kharagpur. Proposal submitted to Indo-US Science and Technology Forum (Aug 2016). \$33,500 (Decision: Not funded)
- Assessment of Urban Evolution and Slum Conditions in the Global South. Funded by College of Humanities and Social Sciences (two grant awards received for this project 2015-16). **\$4,000** (Decision: Funded by HSS Special Projects Award)
- Exploring the Impacts of Marcellus Shale Gas Exploration Activities on Community Development in South-Western Pennsylvania. Funded by University Senate Research Committee - Research Award, Indiana University of Pennsylvania (two grant awards received for this project 2014-16). **\$6,750** (Decision: Funded by IUP Senate Grant, College of HSS Special Projects Award, and partial support from the Department)
- Analysis of Land Use Changes and Marcellus Shale development in Rural Counties of Southwest Pennsylvania. Preliminary Research grant proposal as Letter of Intent submitted to the Center of Rural Pennsylvania 2015. \$15,000 (Decision: Not funded)
- Applications Cellular Automata and Markov Chain Analysis to assess the impacts of Large-Scale Employers in Rural Communities of US (two grant awards received for this project 2011-13). **\$4,500** (Decision: Funded by University of Cincinnati)

Co-Principal Investigator (Co-PI)

- Documentation of Architectural and Urban Evolution of Kolkata, India (project timeline 2015-18). **\$33,000**. [This project is sponsored by Altrim Publishers Barcelona, Spain (**\$5,000**); Morgan State University (**\$27,000**); and Indiana University of Pennsylvania (**\$700**)]. Additional External Grant Proposal submitted to the Graham Foundation for \$9,000 (Sep 2016) (Decision: Not funded).

Presentations at International and National Conferences and Workshops:

- **Ghosh, Sudeshna**, Andrea Viazanko, Haimanti Banerji, and Subrata Chattopadhyay. 2018. Student Field Studies in India II: Impacts of Changing Environmental Conditions on Tea Gardens of Darjeeling, India. Illustrated Paper Presentation, *Annual Meeting of the Association of American Geographers (AAG) 2018*, (Apr 10-14) at New Orleans, LA, US.
- **Ghosh, Sudeshna**, Sweta Byahut and Calvin Masilela. 2018. Pittsburgh – Challenges and Opportunities for Regenerating a Rustbelt City within the Smart City Context. Paper Presentation, *Annual Conference of the Urban Affairs Association (UAA) 2018*, (Apr 4-7) at Toronto, Canada.
- Banerji, Haimanti, **Sudeshna Ghosh**, Subrata Chattopadhyay and Brian Okey. 2017. Organizer and Moderator for Sustainable Development Workshop: Darjeeling Tea gardens and Issues of Urban Wetlands. Sponsored by US Consulate, Kolkata (June 5) at Kolkata, India.
- **Ghosh, Sudeshna**, Haimanti Banerji, Subrata Chattopadhyay and Brian Okey. 2017. Student Field Studies in India II: Chinatown, Kolkata. Paper Presentation, *Annual Meeting of the Association of American Geographers (AAG) 2017*, (Apr 5-9) at Boston, MA, US.
- Okey, Brian, Subrata Chattopadhyay, Haimanti Banerji and **Sudeshna Ghosh**. 2017. Student Field Studies in India I: Rajarghat Slum, Kolkata. Paper Presentation, *Annual Meeting of the Association of American Geographers (AAG) 2017*, (Apr 5-9) at Boston, MA, US.
- **Ghosh, Sudeshna** and Siddhartha Sen. 2016. Evolution of Gated Communities as a Dominant Planning Paradigm: Case of Kolkata, India. Paper Presentation, *Association of Collegiate Schools of Planning National Conference (ACSP) 2016*, (Nov 3-6) at Portland, OR, US.
- Romanos, Michael and **Sudeshna Ghosh**. 2016. The Growth of Brazilian favelas: Great intentions and failed policies. Paper Presentation, *World Planning Schools' Congress (WPSC) 2016*, (Jul 1-7) at Rio de Janeiro, Brazil.
- **Ghosh, Sudeshna**. 2015. Assessing the Impacts of Marcellus Shale boom on Land Use Changes in Washington and Greene County. Paper Presentation, *Association of Collegiate Schools of Planning National Conference (ACSP) 2015*, (Oct 21-25) at Houston, TX, US.
- **Ghosh, Sudeshna**. 2015. Energy Production Patterns and Community Impacts. Session Presentation, *American Planning Association, PA Annual Conference (PPA) 2015*, (Oct 19-20) at Pittsburgh, PA, US.
- **Ghosh, Sudeshna**. 2015. Boom Towns in Southwest PA? Assessing the Impacts of Marcellus Shale boom on Housing Values in Greene County. Paper Presentation, *Annual Meeting of the Association of American Geographers (AAG) 2015*, (Apr 21-25) at Chicago, IL, US.
- **Ghosh, Sudeshna**, Carla Chifos, and Michael Romanos. 2014. Big Employers in Small Towns: Lessons for Growth Management and Land Use Planning in Rural Communities. Paper Presentation, *Association of Collegiate Schools of Planning National Conference (ACSP) 2014*, (Oct 30- Nov 2) at Philadelphia, PA, US.
- **Ghosh, Sudeshna**, Robert Begg, and Corey Fisher. 2014. Impacts of Marcellus-Shale Exploration-based Economic Activities on Local Growth and Development: Case of Southwest Pennsylvania. Paper Presentation, *Pennsylvania Geographical Society (PGS) 2014*, (Nov 7-8) at State College, PA, US.
- *Journal of Planning Education and Research (JPER) Academic Writing Workshop 2014* for Young Scholars and Academics in Planning to Publish (Aug 8-10) at Atlanta, GA, US.

- **Ghosh, Sudeshna.** 2014. Assessing the Land Use and Land Cover (LULC) Change Impacts of Large-Scale Employers in Small Towns and Rural Areas. Paper Presentation, *Annual Meeting of the Association of American Geographers (AAG) 2014*, (Apr 8-12) at Tampa, FL, US.
- **Ghosh, Sudeshna.** 2012. A land use and land cover change model to assess the impacts of a large-scale employer in rural areas. Paper Presentation, *Annual North American Meetings of the Regional Science Association International (RSAI) 2012*, (Nov 7-11) at Ottawa, Canada.
- **Ghosh, Sudeshna.** 2012. Measuring the land use and land cover impacts of the Toyota plant in central Kentucky. Paper Presentation, *Association of Collegiate Schools of Planning National Conference (ACSP) 2012*, (Nov 1-4) at Cincinnati, OH, US.
- **Ghosh, Sudeshna.** 2012. Paper Presentation on Doctoral Dissertation Proposal, *American Real Estate Society Annual Meeting (ARES) 2012*, (April) at St. Petersburg, FL, US.
- Schock, Christian, Peter Mallow, **Sudeshna Ghosh**, and Michael C. Romanos. 2010. Growing forward after job leaves town: Clinton County, Ohio and the aftermath of the DHL closure. Session Presentation, *American Planning Association National Conference (APA) 2010*, (April 10-13) at New Orleans, LA, US.

Master's Thesis Advising:

- Alqahtani, Mesfer. 2018. *Geospatial Probability Modeling of Stone Structures in Northern Saudi Arabia*. Thesis Committee: Dr. William Chadwick (Chair), Dr. Sudeshna Ghosh (2nd), Dr. Ben Ford (3rd).
- Tramontina, Bryan. 2017. *Spatial Distribution Patterns of Visual Indicators of Slum Conditions: Case of Rajarghat, Kolkata, India*. Thesis Committee: Dr. Sudeshna Ghosh (Chair), Dr. Brian Okey (2nd), Dr. Richard Hoch (3rd).
- Applebaum, Rachel. 2015. *Spatial Manifestation and Trends of Cremation in Pennsylvania*. Indiana University of Pennsylvania. Thesis Committee: Dr. Kevin Patrick (Chair), Dr. Sudeshna Ghosh (2nd), Ms. Stacey Wicker (3rd).
- Kaffo, Olushola. (Ongoing). *Identifying, classifying and mapping vegetation to assess impacts of climate change in the tropical rain forest ecosystem in Southern Nigeria using the Spot 5 and Landsat TM satellite imageries*. Thesis Committee: Dr. Richard Hoch (Chair), Dr. Sudeshna Ghosh (2nd), Dr. Jenifer Smith (3rd).

Technical Reports and Planning Documents:

- Exploring Climate Change Impacts on Tea Plantations in Darjeeling, India. **Aug, 2017**. Research Report will be compiled in collaboration with IIT, Kharagpur during Field Research in India. Department of Geography and Regional Planning, Indiana University of Pennsylvania.
- Exploring the Impacts of Urban Encroachment on Ecologically Sensitive Regions: Case of East Kolkata Wetlands, Kolkata, India. **Aug, 2017**. Research Report will be compiled in collaboration with IIT, Kharagpur during Field Research in India. Department of Geography and Regional Planning, Indiana University of Pennsylvania.
- Strategic Planning for Economic Redevelopment in Beaver County, PA. Planning Projects undertaken as part of Planning Methods Course offered in Spring Semester 2017. **May, 2017**. Department of Geography and Regional Planning, Indiana University of Pennsylvania. (In collaboration with Beaver County Office of Planning and Redevelopment)
- Strategic Planning for Economic Development in Ligonier, PA. Planning Projects undertaken as part of Planning Methods Course offered in Spring Semester 2017. **May, 2017**. Department of Geography and

Regional Planning, Indiana University of Pennsylvania. (In collaboration with Ligonier Township Office of Planning)

- Study of Indiana Borough (PA) Historic Corridor along 6th Street. **Jun, 2016**. *Study undertaken by Sudeshna Ghosh, Andrew Estrain and Jessica Stevenson*. (In collaboration with Indiana Borough Office of Planning and Zoning)
- Exploring Socio-Economic and Environmental Conditions in Chinatown of Kolkata. **Jun, 2016**. Research Report compiled in collaboration with IIT, Kharagpur during Field Research in India. Department of Geography and Regional Planning, Indiana University of Pennsylvania.
- Exploring Socio-Economic and Environmental Conditions in Rajarghat Slum of Kolkata. **Jun, 2016**. Research Report compiled in collaboration with IIT, Kharagpur during Field Research in India. Department of Geography and Regional Planning, Indiana University of Pennsylvania.
- Demographic and Economic Analysis of 25 Counties in Pennsylvania. Planning Projects undertaken as part of Planning Methods Course offered in Fall Semester 2015. **Dec, 2015**. Department of Geography and Regional Planning, Indiana University of Pennsylvania.
- Demographic and Economic Analysis of 8 Counties in Southwest Pennsylvania. Planning Projects undertaken as part of Planning Methods Course offered in Fall Semester 2014. **Dec, 2014**. Department of Geography and Regional Planning, Indiana University of Pennsylvania.
- Butler County and Indiana County, PA: Planning Reports on County Economic, Demographic, Land Use, and Infrastructure Profile. Planning Projects undertaken as part of Planning Methods Course offered in Fall Semester 2013. **Dec, 2013**. Department of Geography and Regional Planning, Indiana University of Pennsylvania.
- La Grange, Kentucky: Urban, Environment, and Economic Assessment and Community Development. **Jan, 2013**. School of Planning, University of Cincinnati.
- Metropolitan Employment Location Patterns: Towards an Urban Model explaining Intra-metropolitan Employment Patterns. **Jun, 2010**. School of Planning, University of Cincinnati.
- Clinton County Economic Recovery Strategy Guidelines. **Apr, 2009**. School of Planning, University of Cincinnati.
- Development Plan for Joda- Barbil 2021. **May, 2006**. Department of Architecture and Regional Planning, IIT Kharagpur. Kharagpur, India.
- Urban Sprawl Study of Class-1 Cities of India. **Jun, 2006**. Human Settlement Division, Indian Institute of Remote Sensing. Dehradun, India.

Professional and Academic Service/ Development Activities:

Academic and Professional Service Activities

- Co-Editor for 3 Abstract Bulletins published in Mar, Jun, Sep, 2017. Smart Metropolitan Regional Development – Economic and Spatial Design Strategies. Edited by T. M. Vinod Kumar. Singapore: Springer. 2017.
- Designing and Implementing a 3-week Study Abroad Program as Co-Instructor – “GEOG 481/581 Special Topics on Field Research Study in Eastern India” in collaboration with the Department of

Architecture and Regional Planning at the Indian Institute of Technology, Kharagpur, India, for Summer of 2016 and Summer of 2017.

- Advisor, Undergraduate Research Projects presented at the IUP Undergraduate Scholar's Forum (Outcome of Research Seminar/ Planning Practicum Course), 2015-18.
- Invited Speaker. January 2017. Talk on Impacts of Fracking on the Housing Market in Southwest PA. Department of Architecture and Regional Planning, IIT Kharagpur. Kharagpur, India.
- Invited Speaker. January 2016. Talk on CA Modeling at Regional Scale. Ranbir and Chitra Gupta School of Infrastructure Design and Management, IIT Kharagpur. Kharagpur, India.
- Participant, Principal Investigator Mentorship Academy (PIMA), IUP Research Institute 2014-15.
- Peer Reviewer for Journal Article (June 2015), *Young Academics (YA) Network* of the Association of the European Schools of Planning (AESOP).
- Peer Reviewer for Journal Article (November 2014), *Journal of City, Culture and Architecture*, MacroWorld Publications.
- Peer Reviewer (August 2014), *Journal of Planning Research and Education*, Sage Publications.
- Invited Speaker. July 2014. Talk on Large-Scale Automobile Industries in the US. School of Architecture, Planning and Landscape Architecture, Auburn University, Auburn, AL, US.

University-level Service Activities

- **Committee Member, Liberal Studies Committee**, IUP (appointed for 2015-19 term).
- **Faculty Advisor, Planning Student Organization**, Department of Geography and Regional Planning, Indiana University of Pennsylvania, **2013- present**.
- **Facilitator, Departmental Teaching Circle** on Accessing and Managing Geospatial Database in Classrooms. **2014-present**.
- Contributor, Proposal for Master's of Urban and Regional Planning program at IUP, **2017-18**.
- Contributor, B.S. in Regional Planning program Curriculum Revision, **2016-18**.
- Contributor, Self-Study Report for IUP's B.S. in Regional Planning program accreditation, **2016-17**.
- Poster Judge at the Undergraduate Scholars Forum, Indiana University of Pennsylvania, Apr **2017**.
- Invited Speaker. Talk on Academics in the US for International Students. *Office of International Education – Orientation for International Students*, Indiana University of Pennsylvania, Jan **2017**.
- Invited Speaker. Talk on Field Research in India. *Upward Bound Math and Science Program*, Indiana University of Pennsylvania, Sep **2016**.
- Invited Speaker. Talk on Academics in the US for International Students. *Office of International Education – Orientation for International Students*, Indiana University of Pennsylvania. Aug **2016**.
- Session Judge at the Graduate Scholars Forum, Indiana University of Pennsylvania, Apr **2016**.
- Panel Discussant. Language Support for International Students, organized by *American Language Institute*, Indiana University of Pennsylvania, Nov **2015**.
- Poster Judge at the Undergraduate Scholars Forum, Indiana University of Pennsylvania, Apr **2015**.
- Poster Judge at the Undergraduate Scholars Forum, Indiana University of Pennsylvania, Apr **2014**.

Other Service Activities

- Organizer, Talk on “Land Banks and Land banking: Prospects and Challenges in the Developing World” by Prof. B.K. Sengupta, Professor Indian Institute of Technology, Kharagpur, India (October 23, 2014).
- Editorial Board member, *Journal of City, Culture and Architecture*, published by Institute of Language and Communication Studies (joined March 2014).

Professional Memberships:

- Professional Member; American Planning Association (APA)
- Professional Member; Institute of Town Planners, India (ITPI)
- Professional Member; Council of Architecture (COA), India, Professional Member

Date: September 1, 2018