

Arnab Chakraborty

Doctoral Candidate, Urban and Regional Planning and Design

Research Assistant, National Center for Smart Growth Research and Education
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Teaching Interests

Land use planning, GIS and Planning Support Systems, economic development planning, contemporary planning issues, public involvement in planning, spatial modeling, regional and metropolitan planning

Education

- Since 2003 Ph.D. in Urban and Regional Planning and Design (Expected Fall, 2006)
University of Maryland, College Park
- Dissertation *Do regionally integrated development plans provide aggregate net benefits over plans developed for each metropolitan area?*
Major – Land Use Planning and GIS
Minor – Urban and Regional Economics
- 2001 – 2003 Master of Urban Planning and Policy
University of Illinois, Chicago
- Thesis Design guidelines for better Median Station environments
Majors – Transportation Planning and Physical Planning
- 1996 – 2001 Bachelor of Architecture (with Honors)
Indian Institute of Technology, Kharagpur
- Thesis Showcasing environmental issues through design – Aquatic Sanctuary in East-Calcutta Wetlands, Calcutta, India

Awards and Honors

- 2005 – 06 Urban Land Institute's Kenneth M. Good Graduate Student Fellowship
2005 Chair, Data Committee – Imagine Maryland (statewide visioning effort)
- 2004 – 05 Invited Participant – ULI Washington's Reality Check Leadership Committee
- 2002 – 05 Travel Grants to ESRI UC 2005, AESOP 2005, TRB 2003, APA 2003, EDRA 2003 etc.

Employment History

- Since 2003 Research Assistant, National Center for Smart Growth, University of Maryland

Selected project description – leadership and complete technical management of recently concluded exercise in Washington D.C., titled: “Reality Check – Envisioning our Region’s Growth”, including advising teams of about 30 leading regional organizations and training and managing more than 80 volunteers playing technical role before and during and after the exercise.

2002 – 2003 Research Assistant, Urban Transportation Center, University of Illinois, Chicago

Selected project description – worked on the multi-year collaborative project on visualizing the transit infrastructure in collaboration with Chicago Transit Authority, Massachusetts Institute of Technology, URS Corp.

2002 Graduate Intern, Department of Planning and Development, Chicago Transit Authority (CTA)

Selected project description – worked on Rail Transit improvement program including the creating designs for train stations especially the recently renovated White Sox Station on CTA’s Red Line.

2001 – 2002 Research Assistant, Great Cities Urban Data Visualization Laboratory, University of Illinois, Chicago

Selected project description – worked on developing redevelopment proposal for a neighborhood in historic Village of Oak Park and historic properties development and management for the historic Village of Wilmette

2000 – 2001 Intern, Architecture and Design Services, Hasmukh C. Patel Design and Project Management, Ahmedabad, India

Selected project description – worked on conceptual designs for the new campus for the Indian Institute of Management, Ahmedabad (original campus designed by Louis I. Kahn).

1999 – 2000: Research Scholar, Science and Technology Entrepreneurship Park, Indian Institute of Technology, Kharagpur

Selected project description – worked on World Bank sponsored transportation infrastructure assessment tasks for Government of India’s Golden Quadrangle Project.

Guest Lectures/Modules

Spring, 2005 Smart Growth Leadership Program, sponsored by the University of Maryland

- delivered lecture and conducted workshop on understanding regional planning issues through application of information technology model developed in the ‘ULI Reality Check’ exercise.

- Winter, 2005 Urban Growth Management module at the Institute of Housing and Urban Development Studies, Rotterdam (The Netherlands), sponsored by Lincoln Institute of Land Policy
– delivered lecture on regional visioning and moderated multiple work sessions on regional analysis.
- Spring, 2003 Visualization and Urban Form, a training program for Chicago Transit Authority (CTA) staff, sponsored by Joint Program of CTA and Massachusetts Institute of Technology
– conducted several workshops on planning and visualization tools for transit planners
- Spring, 2003 Invited lecture on the Role of Visualization in Urban Planning, examples from research and practice, sponsored by UPP662 (Physical Planning III).

Teaching Experience

- Fall, 2005 Teaching Assistant
URSP 688R - Recent Developments in Urban Studies: Planning for the Baltimore-Washington Region
Instructor – Dr. Gerrit J. Knaap

Journal Articles – fully refereed

- Shiffer, M., Chakraborty, A., McNeil, S., Srinivasan, S., Donahue, B., Garfield, G., “A Spatial Multimedia Representation of the Chicago Transit Authority's Rail Infrastructure”, *Transportation Research Record* 1838, pp 1-10, 2003
- Chakraborty, A., “A Simple GIS-based Regional Visioning Model using Blocks, Spreadsheets and Maps”, Under-review by Transportation Research Board

Selected Conference Papers

- Knaap, G., Chakraborty, A., “A Planning Support Model for Public Participation in Land Use Planning - Reflections on "Reality Check"”, Association of Collegiate Schools of Planning, Kansas City, October 2005
- Chakraborty, A., “30 Maps, 300 Policymakers, 3000 Squares - A Regional Planning Model”, ESRI Education User Conference, San Diego, July 2005
- Chakraborty, A., Knaap, G. “2-Hour Recipe for Regional Planning – Reflections on Reality Check”, Association of European Schools of Planning Annual Congress, Vienna, Austria, July 2005
- Chakraborty, A., McNeil, S., “Case Study on Chicago’s Median Transit Station”, Environmental Design Research Association (EDRA) Conference, Minneapolis, April 2003

Chakraborty, A., McNeil, S., “Guidelines for Better Design of Median 'L' Stations”, American Planning Association's (APA) Conference, Denver, Colorado, March 2003

Chakraborty A., Shiffer M., McNeil S., “A Spatial Multimedia Representation of the Chicago Transit Authority's Rail Infrastructure”, Transportation Research Board's Annual Meeting, January 2003

Working Papers

Knaap, G., Chakraborty, A., “Towards a unified regional vision for the MD-DC-VA region – a public participation approach”

Knaap, G., Chakraborty, A., ET. AL. “An empirical study of the relationship between zoning and housing affordability – study of six US metro areas”

Chakraborty A., Brower, S., Eisenbach R., Sullivan J., “Study of Federal and State Programs on urban growth managements to develop context specific smart growth guidelines”

Chakraborty A., Brower, S., Eisenbach R., Sullivan J., “Smart Sprawl – Survey of alternative development scenarios along scenic byways to identify perceptual elements of context sensitive growth”

Chakraborty A., Shen, Q., “Literature review: Impacts of Information and Communication Technology on Urban Form”

Professional Involvement

Member and Fellow - Urban Land Institute

Member - American Planning Association (APA)

Member - Environmental Design Research Association (EDRA)