

COLUMBIA UNIVERSITY
Sustainable Development

Placement Director: John Mutter	jmatter@ei.columbia.edu	212 854 0716
Placement Director: Douglas Almond	douglas.almond@columbia.edu	212 854 7248
Graduate Student Coordinator: Mona Khalidi	mk2388@columbia.edu	212 854 8690

Office Contact Information

1515 Business School, LAU, PO BOX 13-5053
Chouran, 1102 2801, Beirut, Lebanon
phone number: +961+71-112-718

Personal Information: 24/10/1980

Undergraduate Studies:

Bachelor of Engineering, Mechanical Engineering, American University of Beirut, 2003

Graduate Studies:

London School of Economics, MSc in Development Management, 2003-2004

Columbia University, 2004 to present

Thesis Title: "Alternative Energy Policy: Biofuels As a Case Study"

Expected Completion Date: May 2010

References:

Joseph Stiglitz
Columbia Business School
Jes322@columbia.edu

Nassim Taleb
NYU
nnt@fooledbyrandomness.com

Steven Mintz
Columbia University
sm3031@columbia.edu

Tanya Heikkila
th2063@columbia.edu

Teaching and Research Fields:

Primary fields: Environmental and Development Economics

Secondary fields:

Monetary Economics, International Economics, Macroeconomics

Teaching Experience:

2009-2010	Full-time lecturer in economics in LAU, teaching Macro, Micro, and Int'l Econ
2009	Designed own course on biofuels policy for Columbia grad students
2005-09	Teaching Assistant for Profs Jeffrey Sachs and Jackie Klopp in Development Economics

Research Papers:

“Alternative Energy Policy: Biofuels as a Case Study” (Job Market Paper)

This paper constructs an individual and societal utility maximization exercise to assess the relative merits of three different policy regimes in relation to alternative energy. The first is the no policy regime, the second is the placing of a mandate to increase the consumption of an alternative energy fuel, and the third is a tax on the emissions of carbon. The analysis shows that in light of an ignorance of the costs, a tax regime provides the maximum reduction in costs and pollution, whereas a mandate regime could lead to a reduction or an increase in costs and pollution. A second model assesses the three policy regimes’ effect on technological innovation and adoption and concludes that a tax is more likely to lead to the innovation and adoption of cleaner energy technologies, whereas a mandate is equally likely to lead to the adoption of cleaner and dirtier alternative energies. It is therefore concluded that a tax on carbon is a superior policy choice than a mandate on the consumption of specific energy sources.

“Climate Change, the Knowledge Problem and the Good Life” with Edmund Phelps. The Center on Capitalism and Society Working Paper No. 42, September 2009

Research Paper(s) in Progress

“The role of Central Banking in Financial Crisis Prevention: A Comparison of Lebanon and Jordan in the 2008 Financial Crisis.”

“Biofuels: Science and Policy in Alternative Energy” PhD dissertation in progress

JESSICA E. BARNES

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EDUCATION

Columbia University, New York, NY, 2004-

Ph.D. Candidate in Sustainable Development, degree anticipated October 2010

Working Dissertation Title: Governing Flow: The Politics of Water Distribution and Use in Egypt.

Committee: Professors Timothy Mitchell, Paige West, Lisa Anderson, Lila Abu-Lughod, and Frank Magilligan

M.Phil in Sustainable Development, May 2007

Qualifying exams passed with a Distinction

Fields: Society and the Environment – Disciplinary Roots, Conceptual Background and Perspectives on Water and Agriculture; Political Economy of the Middle East; Economic Thought on Development; Agro-Environmental Systems in Arid Zones.

Exam Committee: Professors Paige West, Timothy Mitchell, Sanjay Reddy, and Martin Stute

M.A. in Sustainable Development, May 2006

Thesis: Managing the Waters of Ba^cth Country: The Power and Politics of Syria's Water Scarcity.

Thesis Advisors: Professors Paige West and Timothy Mitchell

Yale University, New Haven, CT, 2001-2004

Master of Environmental Management, May 2004

Institut Français D'Études Arabes De Damas, Damascus, Syria, 2002-2003

Diploma in Arabic, June 2003

St Catherine's College, Oxford University, UK, 1997-2000

First Class BA (Hons) in Geography, May 2000.

Thesis: Barchan Dune Morphology, Migration and Management on the Kuiseb River Delta, Namibia.

Thesis Advisor: Professor Andrew Goudie

AWARDS, FELLOWSHIPS AND GRANTS

Finalist, Roy A. Rappaport Graduate Student Award, Anthropology & Environment Section of the American Anthropological Association, 2009

Finalist for graduate student prize.

Wenner-Gren Dissertation Research Fellowship, Wenner-Gren Foundation, 2008-2009

Fellowship for dissertation fieldwork.

Institute for Social and Economic Policy Research Small Grant, Columbia University, 2005-2010

Four years of funding for a seminar series in Politics, Society, Environment, and Development (co-organized with Dr. Paige West).

Sustainable Development Fellowship, Columbia University, 2004-2010

Fellowship providing tuition and stipend for doctoral study.

Evan Frankel Scholarship, Yale School of Forestry and Environmental Studies, 2001-2004
Fellowship providing financial support for masters studies.

Summer Internship Fellowship, Yale School of Forestry and Environmental Studies, 2002
Funding for a summer internship with the UNDP in Lebanon.

Henry Fellowship, Charles and Julia Henry Fund, 2001-2002
Fellowship providing tuition and stipend for first year of study at Yale.

Proxime Accessit, A J Herbertson Prize, Oxford University, June 2000
Prize for undergraduate thesis.

Henrietta Hutton Memorial Award, Royal Geographical Society, June-July 1999
Funding for thesis research in Namibia.

Summer Travel Grant, St Catherine's College, Oxford University, June-July 1999
Funding for thesis research in Namibia.

Academic Scholarship, St Catherine's College, Oxford University, 1998-2000
Award for passing the Honor Moderations exams with a First Class degree.

Shell Prize, Oxford University, June 1998
Prize for Honor Moderations research project.

PEER-REVIEW PUBLICATIONS

Barnes, J., 2009 Managing the Waters of Ba'ath Country: The Power and Politics of Syria's Water Scarcity. *Geopolitics*, 14(3): 510-530.

Barnes, J., 2001 Barchan Dunes on the Kuiseb River Delta, Namibia. *South African Geographical Journal*, 83 (3), 283-292.

CONFERENCE PAPERS AND INVITED PRESENTATIONS

2010 "Networking Irrigation: Desert Reclamation and Agricultural Expansion in Egypt," in the executive session, *Infrastructures of Circulation*, organized by Jessica Barnes and Nikhil Anand, Annual Meeting of the American Anthropological Association, November 17-21, 2010, New Orleans (forthcoming).

2010 "Managing the Invisible: Drainage in Egypt's Agricultural Lands," in the session, *The Hydrosocial Cycle: Between Hydrology and Critical Social Science*, organized by Dr. Jamie Linton, Dr. Rachel McDonnell, and Dr. Jessica Budds, Annual Meeting of the Association of American Geographers, April 14-18, 2010, Washington DC (forthcoming).

2009 "The Social Life of Scarcity: Watering Egypt's Agricultural Lands," in the session, *The Nature(s) of Contemporary Water Worlds*, organized by Andrea Ballesterio and Ashley Carse. Annual Meeting of the American Anthropological Association, December 2-6, 2009, Philadelphia.

2009 "Practices of Participation: The Establishment of Water User Associations in Fayoum, Egypt," in the *Rappaport Prize Panel*, Annual Meeting of the American Anthropological Association, December 2-6, 2009, Philadelphia.

- 2009 “The Nile’s Nadir: The Politics of Water Scarcity in Egypt,” in the session, *Water and Politics in Egypt: Manipulating the Waters of Egypt from the 18th Century through to the Present*, organized by Jessica Barnes. Annual Meeting of the Middle East Studies Association, November 21-24, 2009, Boston.
- 2009 “Irrigating the Desert, Deserting the Irrigated: Land Reclamation on Egypt’s Margins,” in the session, *Water Worlds II: Socio-Technologies of Water Access, Manipulation, and Monitoring*, organized by Jessica Barnes and Dr. Samer Alatout. Society for the Social Studies of Science Meeting, October 28 - November 1, 2009, Washington DC.
- 2009 “Watering Egypt: Political Challenges of Water Management in an Arid Land.” Invited lecture, Robert F. Wagner Graduate School of Public Service, October 20, 2009, New York University.
- 2009 “Watering the Desert: The Politics of Land Reclamation on Egypt’s Margins.” Workshop on Water and the Environment, May 1-2, 2009, Harvard University.
- 2009 “Participation in Practice: The Establishment of Water User Associations in the Fayoum, Egypt,” in the session, *Spaces for Change? Decentralization, Participation, and Local Governance in MENA*, organized by Dr. Sylvia Bergh and Dr. Mostafa Jari. 10th Mediterranean Research Meeting, European University Institute, March 25-28, 2009, Florence, Italy.
- 2009 Commentary on “Middle Niger Niche Specialization: The Prehistorian's Deep Time Dilemma” by Roderick McIntosh. Agrarian Studies Seminar, February 13, 2009, Yale University.
- 2008 “Drainage in Egypt: A Political Ecology of Excess.” Annual Meeting of the American Anthropological Association, November 19-23, 2008, San Francisco.
- 2008 “Building Socio-Technical Worlds: The Establishment of Water User Associations in Fayoum, Egypt.” New Inter-Disciplinary Perspectives on Water and Society in a World Perspective Workshop, May 8-10, 2008, Harvard University.
- 2006 Commentary on “Conservation Is Our Government Now: The Politics of Ecology in Papua New Guinea” by Paige West (Duke University Press, 2006). Culture and Ecology Seminar, November 2, 2006, Columbia University.

SESSIONS ORGANIZED AT PROFESSIONAL MEETINGS

- 2010 Co-Organizer with Nikhil Anand, *Infrastructures of Circulation*. Executive Session for the Annual Meeting of the American Anthropological Association, November 17-21, New Orleans (forthcoming).
- 2009 Organizer, *Water and Politics in Egypt: Manipulating the Waters of Egypt from the 18th Century through to the Present*. Annual Meeting of the Middle East Studies Association, November 21-24, Boston.
- 2009 Co-Organizer with Dr. Samer Alatout of a series of four sessions:
Water Worlds I: Water Knowledges and Expertise.
Water Worlds II: Socio-Technologies of Water Access, Manipulation, and Monitoring.
Water Worlds III: Circulating Paradigms of Water Management.
Water Worlds IV: Hydro-Economics, Models, and Extremes.
 Society for the Social Studies of Science Meeting, October 28 – November 1, Washington, DC.

TEACHING EXPERIENCE

Part Time Faculty, Graduate Program in International Affairs, The New School for Social Research, New York, Spring 2010

Teaching a graduate seminar on Comparative Development Experience. Designed the syllabus and planned the class, which involves weekly lectures, discussion, role play activities, and practical exercises.

Faculty Advisor, School of International and Public Affairs, Columbia University, New York, Spring 2009

Faculty advisor for the Economic and Political Development Workshop. Provided guidance to a team of five masters students working on a report on a development project in Egypt for a client. Met regularly with the students and gave advice on research methodology and their group workplan, read and provided feedback on report drafts, and assigned grades to individuals within the team.

Teaching Assistant, School of International and Public Affairs, Columbia University, New York, Fall 2008, Spring 2006-Spring 2007

Led weekly discussion sections (for groups of 10-30 students) on course readings and lectures, incorporating role plays and case study activities, wrote weekly discussion questions, worked with students on paper writing and critical thinking skills, and graded exams and papers for the following courses:

Professor Jackie Klopp, Introduction to International Development, Fall 2008

Presented Lecture (95 students): Development and the Environment: The Sustainability Issue.

Professor Toni Sethi, Introduction to International Development, Spring 2007

Professor Jackie Klopp, Introduction to International Development, Fall 2006

Professors Charles Downs and Jackie Klopp, Introduction to International Development, Spring 2006

Visiting Commentator, Wagner Graduate School of Public Service, New York University, New York, Fall 2008

Invited to judge the final group presentations in Professor Natasha Iskander's class on Water Sourcing and Delivery in an Era of Climate Change. Gave feedback on presentations and posed questions to the teams (25 students).

Teaching Assistant, School of Forestry and the Environment, Yale University, New Haven, Summer 2003

Led group activities and helped run field exercises for the Land Mapping and Measurement module of the incoming masters students' training program, Great Mountain Forest, Norfolk, CT (30 students).

RELEVANT PROFESSIONAL EXPERIENCE

UNDP Drylands Development Centre, Damascus, Syria, Spring-Summer 2003

Junior Environmental Consultant: Worked on the National Action Plan to Combat Desertification in Syria Project, based in the Ministry of Agriculture. Focused on capacity building of the project team through a series of workshops in Arabic covering topics such as monitoring and reporting project activities and writing project proposals. Drafted a resource mobilization strategy to raise money to fund implementation of the action plan. Developed a

bilingual brochure and information dossier about the project to present to potential international donors.

United Nations Development Programme, Beirut, Lebanon, Summer 2002

UNDP Intern: Prepared the third edition of *Portfolio*, the UNDP Environment Unit's newsletter.

Lebanese Agricultural Research Institute, Tel Amara, Lebanon, Summer 2002

UNDP Intern: Worked on the Lebanese project team for the UNDP/GEF funded Project for the Conservation and Sustainable Use of Dryland Agrobiodiversity in the Near East and compiled a comprehensive report on the current status of agrobiodiversity in the three project sites, drawing on interviews, data collected in the field, and GIS analysis.

Applied Research Institute of Jerusalem (ARIJ), Bethlehem, W. Bank, Winter-Summer 2001

Research Assistant: Worked on the Palestinian situation report for the UNDP/GEF funded regional Project for the Conservation and Sustainable Use of Dryland Agrobiodiversity in the Near East and facilitated a stakeholder workshop on agrobiodiversity conservation in Palestine.

Link Community Development, KwaZulu Natal, South Africa, Summer 2000

Evaluation Team Leader: Coordinated an international team to conduct participatory evaluations of an education development project with rural primary schools. Organized a workshop for fifty teachers on school development planning and fundraising.

Schools' Partnership Worldwide, Tanga, Tanzania, Winter-Summer 1997

Taught geography, math, and biology in Kwemvumo Secondary School.

LANGUAGE AND TECHNICAL SKILLS

Arabic

Classical Arabic - advanced spoken, proficient written.

Colloquial Arabic - fluent in the Egyptian and Syrian dialects.

Spatial, Quantitative, and Qualitative Data Analysis

Proficient in ArcGIS, ER Mapper, STATA, and NVivo.

MEMBERSHIPS

Association of American Geographers

American Anthropological Association

Society for the Social Studies of Science

Middle Eastern Studies Association

EDUCATION

- Columbia University**, Graduate School of Arts and Sciences
Ph.D. in Sustainable Development New York, NY
Expected August 2010
• Dissertation title: Essays on China's Economic Transformation (advisor: Prof. Joseph E. Stiglitz)
- University of Pittsburgh**, Dept. of Economics / Dept. of Statistics
M.A. in Economics / M.A. in Applied Statistics Pittsburgh, PA
2004
- Peking University**, School of Economics
M.A. in International Economics Beijing, P.R.China
2002
• Thesis title: Trends of APEC Future Development (advisor: Prof. Ninggeng Wu)
- Renmin University**, School of Economics
B.A. in International Economics, Summa Cum Laude Beijing, P.R.China
1999
• Thesis title: Two Decades of TVEs role in Chinese Trade (advisor: Prof. Weiping Huang)

RESEARCH FIELDS

Economic Development/ Economic Growth/ Chinese Economy

RESEARCH EXPERIENCE

- Columbia University**, Graduate School of Business
Research Assistant (Prof. Joseph E. Stiglitz, 2001 Nobel Laureate in Economics) New York, NY
2005-present
• Assisted research on "Transformation of China's Growth Pattern", presented at China Development Forum, Mar.2010, Beijing, P.R. China
• Assisted research on the paper "Lessons of China's Transition to Economists", presented at AEA Meeting, Jan.2009, San Francisco
• Assisted research on "Towards A More Sustainable Growth Strategy for China", presented at China Development Forum, Mar.2008, Beijing, P.R. China
• Assisted research on "Towards A New Model of Development", presented at China Development Forum, Mar.2007, Beijing, P.R. China
• Assisted research on the paper "Remarks On China's 11th Five-Year Plan: Another Major Step in China's Transition to A Market Economy", presented at China Development Forum, Mar.2006, Beijing, P.R. China
• Conducted miscellaneous research on China for Prof. Stiglitz, accompanied Prof. Stiglitz's meetings with Chinese state leaders/scholars in the US/China, and attended China Development Forum 2006-2010, Beijing, P.R. China
• Conducted research, edited papers, and managed the book project leading to the publication of "Selected Works on Economics by Joseph E. Stiglitz", China Financial Publishing House, Mar.2007, Beijing, P.R. China
- Columbia University**, Committee on Global Thought & Initiative for Policy Dialogue New York, NY
Consultant & Team Leader *2006-present*
• Initiated the project "Institutional Design for China's Evolving Market Economy" with Prof. Joseph Stiglitz, Katharina Pistor (Columbia Law School), David Kennedy (Harvard Law School), Justin Yifu Lin (Peking University and World Bank), Lan Xue (Tsinghua University) funded by University of Manchester, Columbia University, Tsinghua University and Peking University
• Organized seven conferences participated by prestigious scholars held in Manchester UK, Aug.06; New York, NY, Feb.07; Beijing, P.R. China, Mar.07; Manchester UK, Jul.07; Beijing, P.R. China, Mar.08; Manchester UK, Jun.08; Beijing, P.R. China Oct.09
• Managed and participated in editing the two conference books to be published by Oxford University Press
- World Bank**, Development Research Group Washington DC
Consultant *Summer 2005*
• Consulted and studied on the relationship between "Financial Development and Economic Growth for Developing Countries"
- United Nations**, Capital Development Fund (UNCDF) New York, NY
Intern *Fall 2004*
• Participated in organizing series of conferences celebrating "UN Year of Microfinance"
• Consulted and studied on "Microfinance's development in China"

TEACHING EXPERIENCE

- Columbia University**, School of International & Public Affairs
Teaching Assistant to Prof. Paula Wilson New York, NY
Spring 2007/2008

- Course “Colloquium on Financial Management in Government” for Master of Public Administration (MPA) students with a concentration on Environmental Policy

University of Manchester, Manchester Business School

Manchester, UK

Teaching Assistant to Prof. Joseph E. Stiglitz

Summer 2006/2007

- Course “Advanced Graduate Workshop on Poverty, Development and Globalization” for 30 Ph.D. candidates selected around the world

University of Pittsburgh, Department of Economics

Pittsburgh, PA

Teaching Assistant

- Course “International Economics”

Fall 2003

- Course “Introduction to Macroeconomics”

Spring 2003

- Course “Introduction to Microeconomics”

Fall 2002

INVITED PRESENTATIONS

- Forum on Sustainable Development in China, World Bank, Washington DC *Oct. 2007*
- Chinese Economists Society 2006 conference, Shanghai, P.R. China *Jul. 2006*
- 15th Annual Graduate Student Conference on East Asia at Columbia University, New York, NY *Feb. 2006*
- Mid Atlantic region 34th Annual Conference, Pittsburgh, PA *Oct. 2005*
- Chinese Economists Society 2005 conference, Chongqing, P.R. China, *Jun. 2005*
- West China Development Conference, Yinchuan, P.R. China, *Jun. 2005*
- Asia Pacific College Student Conference, Bangkok, Thailand *Jan. 1998*

PUBLICATIONS

6. “Lessons of China’s Transition to Economists”, with Stiglitz, forthcoming
5. “Selected Works on Economics by Joseph E. Stiglitz”, six volumes, core translator, China Financial Publishing House, March 2007, Beijing, P.R. China
4. "Economic Growth in a Green View - A case study for China", Chinese Economists Society Conference Volume, July 2006, Shanghai, P.R. China
3. “Geographical influence on China’s regional development”, Chinese Economists Society Conference Volume, June 2005, Chongqing, P.R. China
2. “Trends for APEC Future Development”, Developing Countries Economy in the Changing World Economy, Volume of Ninggeng Wu, p.32-51, September 2005, Peking University Press, Beijing, P.R. China
1. Environmental Sustainability and Economic Development”, Asia Pacific College Student Conference Volume, January 1998, Bangkok, Thailand

HONORS/AWARDS

- **Chinese Government Award for Outstanding PhD Students Abroad** *2008*
- Sasakawa Young Leaders Fellowship Fund, Columbia University *2006, 2007*
- Travel Grant, Earth Institute, Columbia University *2005, 2006*
- Ph.D. Training Grant, Weatherhead East Asian Institute, Columbia University *2005, 2008*
- Faculty Fellowship – Highest Academic Fellowship, Columbia University *2004-2009*
- Academic Merit Full Scholarship, University of Pittsburgh *2002-2004*
- Sasakawa Excellent Youth Education Fund of Japan, Peking University *2001*
- Citibank Scholarship, Peking University *2001*
- Tokyo Mitsubishi Scholarship, Peking University *2000*
- Excellent Research Paper Award, Asia Pacific College Student Conference *1998*
- First Prize, Academic Achievement Scholarship, Renmin University *1996, 1998*
- First Prize, Wu Dakun International Economics Award, Renmin University *1996, 1998*
- Freshman Academic Achievement Scholarship, Renmin University *1995*

LEADERSHIP

- President of Greater China Initiative, Columbia University, New York, NY *2006-2007*
- Class President, Peking University, Beijing, P.R. China *2000-2002*
- One of the three Representatives in the World College Student Conference, Bangkok, Thailand *1998*
- President of School Student Union, Renmin University of China, Beijing, P.R. China *1996-1997*

MEMBERSHIP

- Chinese Economists Society, Member *2005-present*
- American Economic Association, Member *2002-present*

EDUCATION

**PhD candidate in Sustainable Development, Columbia University
(expected in May 2010)**

Thesis: *Journeys toward Sustainable Development: Policy Entrepreneurs and the Rise of the Green State in Chile and Peru.*

Dissertation committee: John Coatsworth (chair), Rosemary Thorp, Jose Antonio Ocampo, and Ira Katznelson.

Research interests: green governance, resource and environmental conflict, political economy of development

2007 **M.Phil. in Sustainable Development, Columbia University**

2002 **MPA/ID, Harvard University**

Coursework included international political economy and development economics

1996 **BA in Economics, Pontificia Universidad Católica del Perú**

Honors and Grants

2009-2010 Empedocle Maffia Fellow, the Fund for Global Environment and Conflict Resolution Awards

2008-2009 GSAS Teaching Fellow, Columbia University

2008 Institute of Latin American Studies at Columbia University fieldwork grant

2007 Institute of Latin American Studies at Columbia University fieldwork grant

2007 Earth Institute at Columbia University travel grant

2004-2008 Sustainable Development Fellow, Columbia University

2001-2002 Teaching Fellow, Harvard Kennedy School of Government

2001 Teaching Fellow, FAS Harvard College

2000-2002 Joint Japan-World Bank Scholarship for graduate studies at Harvard Kennedy School

Publications

Forthcoming 2010. "Post-Conflict Economic Policy and Group Inequalities in Peru" in Langer, Arnim, Frances Stewart and Rajesh Venugopal (eds.) *Post Conflict Reconstruction and Horizontal Inequalities*. London: Palgrave.

2007 "Minería y Economía de los Hogares en la Sierra Peruana: Impactos y Espacios de Conflicto" (with Eduardo Zegarra and Maritza Paredes). *GRADE-Documento de Trabajo* 51. Lima: GRADE.

2004 "Instituciones y Crecimiento en los Países Andinos" (with Joaquín Vial), *CGSD Working Paper* 9. Columbia University.

Work in Progress

"How do Mineral-States Learn? Bounded Policy Entrepreneurs and the Rise of the Copper Funds in Chile." Accepted at APSA 2010.

"An Environmental Resource Curse? Governing Air Pollution from Smelters in Chuquicamata and La Oroya." Accepted at ISEE 2010.

"Economic Gains, Environmental Failures: La Oroya, 1890s-2010." Accepted at *Environments: the 79th Anglo American Conference of Historians*.

"Layering and Reinventing Autonomy: Chile's Strong State and the Management of Mineral Abundance." Book chapter for Thorp, Rosemary, ed., *The Political Economy Challenges of Development Based in Mining: Case Studies from Africa and Latin America* (CRISE, University of Oxford).

"The Political Economy of Extractives in Bolivia, Ecuador and Peru" (with Rosemary Thorp). Book chapter for a volume edited by Anthony Bebbington (School of Environment and Development, University of Manchester).

JOSÉ CARLOS ORIHUELA

524 West 122 St. Apt 5A. New York, NY 10027. Phone: 646 202 0543

jo2110@columbia.edu

“Horizontal Inequalities and Trade: The Case of Peru.” Book chapter for Langer, Arnim and Frances Stewart, eds., *Horizontal Inequalities and Trade: A Comparative Perspective* (CRISE, University of Oxford).

“Context Matters: Institutional Foundations for Environmental Kuznets Curve Hypotheses.”

Presentations in Conferences and Workshops

- “Escaping the ‘Environmental Resource-Curse’: Smelters’ Pollution and Policy-Entrepreneurs in Chile and Peru.” *LASA 2009, Rethinking Inequalities* (Rio, June 11-14, 2009).
- “Post-Conflict Economic Policy and Horizontal Inequalities in Peru.” CRISE-Oxford Post-Conflict Reconstruction Workshop (Kampala, April 16-17, 2009).
- “State Development and the Resource-Curse: The Case of Chile.” University of Oxford, The Political Economy Challenges of Development Based in Mining Workshop (Oxford, March 20, 2009)
- “The Seizure and Allocation of the Resource-Rent: Chile and Peru Compared.” The University of Manchester and ICMM, *Third Territory, Conflicts and Development in the Andes Workshop* (London, October 24, 2008)
- “Sustainable Development in Mineral-Rich Economies: the Cases of Chile and Peru.” Institute of Latin American Studies, Columbia University (January 30, 2008).
- “Sustainable Development in Mineral-Rich Economies: the Cases of Chile and Peru.” The Latin American Centre, University of Oxford (January 24, 2008).

TEACHING EXPERIENCE

- Spring 2010 Part-Time Lecturer. The New School, International Affairs Program.
Comparative Development
- Spring 2009 Reader. Columbia University, SIPA.
Globalization: Economics and Society (Profs. Jagdish Bhagwati and Arvind Panagariya)
Teaching Assistant. Columbia University, SIPA.
Economics of Sustainable Development (Prof. Glen Sheriff)
- Fall 2006 – Teaching Assistant. Columbia University, SIPA.
Spring 2007 *Research Methods and Quantitative Techniques I and II* (Prof. Bogdam Vasi)
- Spring 2005 Tutor. Columbia University, SIPA
and 2006 Economics courses of the MIA and MPA programs.
- Fall 2005 Teaching Assistant. Columbia College.
Challenges of Sustainable Development (Prof. Jeffrey Sachs)
- Teaching Fellow. Harvard Kennedy School of Government
Spring 2002 *Economic Analysis of Public Policy 2* (Prof. Andres Velasco)
Fall 2001 *Economic Analysis of Public Policy 1* (Prof. George Borjas)
- Fall 2001 Teaching Fellow. Harvard College.
Wealth and Poverty in the World Economy (Prof. Jeffrey Sachs)
- 1998-1999 Teaching Assistant. Universidad del Pacifico, Peru (undergraduate level)
Microeconomics.
- 1995-1997 Teaching Assistant. Pontificia Universidad Catolica, Peru (undergraduate level)
Microeconomics and Macroeconomics.

JOSÉ CARLOS ORIHUELA

524 West 122 St. Apt 5A. New York, NY 10027. Phone: 646 202 0543

jo2110@columbia.edu

OTHERS

Reviewer of articles

Journal of Conflict, Security and Development.

Languages

Native Spanish speaker, advanced Portuguese, and basic French.

Software

Stata and SPSS.

Relevant professional experience

Work experience includes Oxford Analytica, the Ministry of Economy and Finance of Peru, the World Bank, the Center on Globalization and Sustainable Development at Columbia University, and the Center for International Development at Harvard University.

Lily Parshall
326 East 73rd Street, New York, NY 10021
646-338-3599, llp15@columbia.edu

Education

Ph.D. Columbia University, Sustainable Development, expected October 2009
M.Phil. Columbia University, Sustainable Development, 2007
M.A. Columbia University, Sustainable Development, 2006
B.A. Columbia University, Environmental Science major and Mathematics minor, cum laude 2001

Honors

Faculty Fellowship (2004-2005; 2008-2009)
National Science Foundation IGERT Fellowship in Development and Globalization (2005-2008)
Outstanding Teaching (Nominated for university-wide award for graduate student teaching in 2005)

Project and Research Experience

Cogeneration Opportunities in New York City, Researcher, 2009

Independently developing spatial model of cost-effective opportunities for cogeneration in NYC.
Funding: Center for Energy, Marine Transportation, and Public Policy at Columbia University.

ClimAID: Climate Change Adaptation Strategies in New York State, Research Team, 2008-2009

Investigating impacts of climate change on the New York State energy sector as part of an interdisciplinary team.
Funding: New York State Energy Research and Development Authority.

Urban Energy Consumption and CO₂ Emissions in the United States, Researcher, 2008-2009

Collaborated with International Energy Agency to estimate U.S. urban energy use for World Energy Outlook 2008.
Lead author on forthcoming paper discussing city-scale energy and emissions inventories in the United States.

National Electricity Planning in Senegal and Kenya, Lead Researcher, 2006-2008

Led training sessions on spatial methods and spreadsheet modeling for electricity planners from across Africa.
Represented Columbia research team during World Bank missions to Senegal and Kenya.
Modeled electrification scenarios, including technology trade-offs and costs, using a spatial algorithm.
Funding: World Bank and Columbia Earth Institute.

Millennium Village Simulation, Faculty Project Development Team, 2006-2008

Developed educational simulation of village life in Africa as part of a team.
Wrote content for educational supporting materials.
MV SIM can be accessed at: <http://mvsim.ccnmtl.columbia.edu>.
Funding: Columbia Earth Institute

Columbia Center for Climate Systems Research at NASA GISS, Project Manager, 2003-2006

Managed multiple interdisciplinary studies on environmental strategies for New York City.
Prepared reports, journal articles, funding proposals, and conference presentations for a wide variety of audiences.

International Council for Local Environmental Initiatives, Environmental Assistant, 2001

Analyzed greenhouse gas emissions and mitigation policies for the City of New Rochelle, New York.

Rainforest Alliance, Research Assistant, 1999-2001

Contributed research for *The Encyclopedia of Rainforests* (2002).

Teaching Experience

Columbia University, Teaching Assistant, 2005-2008

Integrated Development Practice (masters), Professors Jeffrey Sachs and John McArthur
Globalization, Development and Poverty (3-week Ph.D. Workshop), Directed by Joseph Stiglitz
Environmental Science for Sustainable Development (masters), Professor John Mutter
The Challenge of Sustainable Development (undergraduate), Professor Jeffrey Sachs

American Community School at Beirut, Outdoor Education Teacher, 2001-2003

Directed outdoor education program at K-12 international school in Lebanon.

Initiated and implemented GLOBE environmental science program developed by NASA.

Peer-Reviewed Publications

Parshall, L., D. Pillai, S. Mohan, A. Sanoh, and V. Modi. 2009. National electricity planning in settings with low pre-existing grid coverage: development of a spatial model and case study of Kenya. *Energy Policy*, 37:2395-2410.

Lynn, B. T.N. Carlson, C. Rosenzweig, R. Goldberg, L. Druyan, J. Cox, S. Gaffin, **L. Parshall**, and K. Civerolo. 2008. A modification to the NOAA LSM to simulate heat mitigation strategies in the New York City Metropolitan Area. *Journal of Applied Meteorology and Climatology*, 48(2):199-216.

Gaffin, S.R., C. Rosenzweig, R. Khanbilvardi, **L. Parshall**, S. Mahani, H. Glickman, R. Goldberg, R. Blake, R.B. Slosberg, and D. Hillel. 2008. Variations in New York City's urban heat island effect over time and spatially. *Theoretical and Applied Climatology*, 94:1-11.

Rosenzweig, C., W.D. Solecki, **L. Parshall**, M. Chopping, G. Pope, and R. Goldberg. 2005. Characterizing the urban heat island effect in current and future climates in urban New Jersey. *Environmental Hazards*. 6:51-62.

Solecki, W.D., C. Rosenzweig, **L. Parshall**, G. Pope, M. Clark, and M. Wiencke. 2005. Mitigation of the heat island effect in urban New Jersey. *Environmental Hazards*. 6:39-49.

Papers Submitted to Journals

Parshall, L., K. Gurney, S. Hammer, D. Mendoza, Y. Zhou, and S. Geethakumar. Modeling energy consumption and CO₂ emissions at the urban scale: methodological challenges and insights from the United States. *Energy Policy*, in press.

Rosenzweig, C., W.D. Solecki, **L. Parshall**, J. Cox, B. Lynn, S. Hodges, R. Goldberg, S. Gaffin, R. Slosberg, P. Savio, F. Dunstan, and M. Watson. A stakeholder-driven approach to mitigating New York City's heat island. *Bulletin of the American Meteorological Society*, in press.

Conference Papers, Reports, and Other Publications

Parshall, L., S. Hammer, and K. Gurney. 2009. Energy consumption and CO₂ emissions in urban counties in the United States with a case study of the New York Metropolitan Area. *Prepared for the Fifth Urban Research Symposium hosted by the World Bank in Marseille, France in June 2009.*

Bressand, A., A.W. Hinge, and **L. Parshall**. 2009. Energy Efficiency and Urban Development Task Force: New York City case study. Submitted to China Council for International Cooperation for Environment and Development (CCICED). Center for Energy, Marine Transportation and Public Policy, April 2009.

Parshall, L., and J. Corburn. 2009. Urban climate modeling, heat island mitigation and local knowledge: co-producing science for urban policy. *Proceedings of the 89th Annual Meeting of the American Meteorological Society*: http://ams.confex.com/ams/89annual/techprogram/paper_144572.htm

Hammer, S. and **L. Parshall**. 2009. Climate change and New York City's energy sector: vulnerabilities, impacts and adaptation strategies. *Proceedings of the 89th Annual Meeting of the American Meteorological Society*: http://ams.confex.com/ams/89annual/techprogram/paper_150767.htm

Contributor, International Energy Agency, World Energy Outlook 2008. Chapter 8: Energy Use in Cities.

- Modi, V., **L. Parshall**, S. Mohan, D. Pillai, S. Schienle, and S. Moniz. National Electrification Coverage Planning, Investment Costing Estimation Model: Kenya Final Report. *A Report to the World Bank by the Energy Group, Columbia Earth Institute with input from the Kenya Power and Lighting Company (KPLC), November 2007.*
- Modi, V., O.F. Sarr, **L. Parshall**, A. Sanoh, S. Mohan, D. Pillai. 2007. Costing for National Electricity Interventions to Increase Access to Energy, Health Services, and Education: Senegal Final Report. *A report to the World Bank by the Agence Senegalaise d'Electrification Rurale (ASER) and the Energy Group, Columbia Earth Institute, August 2007.*
- Parshall, L.** 2006. Agricultural Development in the United Arab Emirates: A Case Study in the Context of Sustainable Development. *Masters Paper submitted to Columbia University School of International and Public Affairs. Also presented as a poster at the National Science Foundation IGERT Meeting in Washington DC, May 2006.*
- Rosenzweig, C., S. Gaffin, and **L. Parshall** (Eds.) 2006. Green Roofs in the New York Metropolitan Region: Research Report. Columbia University Center for Climate Systems Research and NASA Goddard Institute for Space Studies. New York. 59 pages. Available at: <http://ccsr.columbia.edu/cig/greenroofs/index.html>.
- Gaffin, S., C. Rosenzweig, **L. Parshall**, D. Beattie, R. Berghage, G. O'Keeffe, and D. Braman. 2005. Energy Balance Modeling Applied to a Comparison of White and Green Roof Cooling Efficiency. *Proceedings of Third Annual Greening Rooftops for Sustainable Communities, Washington D.C., 2005.*
- Parshall, L.** 2001. Greenhouse Gas Emissions Inventory Report to the City of New Rochelle, New York. Cities for Climate Protection Campaign (CCP), International Council for Local Environmental Initiatives. New Rochelle, 2001.

Selected Presentations

- US Energy Consumption and CO₂ Emissions at the Urban/Local Scale: From Patterns to Policy. *17th Ph.D. Workshop on International Climate Policy, Zurich, November 2008.*
- Climate Change Adaptation and Mitigation in New York City's Power Sector. *Poster Presentation at University of Alaska Fairbanks Conference for Sustainability IGERTS, October 2007. Received travel grant to attend conference and represented Columbia IGERT on International Development and Globalization.*
- Impacts of Climate Change on New York City. *Invited talk at the Cordozo Law School, New York City, April 2007.*
- Urban Infrastructure for the 21st Century: Urban Forestry, Green Roofs, and Light Surfaces. *Invited talk at the Northeast Sustainable Energy Association Conference, Boston, March 2006.*

Skills

Spatial analysis (ArcGIS), Statistical analysis (Stata), Spreadsheet modeling (Excel), Graphic Design (Adobe Creative Suite), Web Conferencing (AdobeConnect)

Professional Associations

Association of American Geographers
American Meteorological Society

Selected Outreach and Other Activities

18th Ph.D. Workshop on International Climate Policy, Planning Committee (2008-2009)
NESA Virtual Science Fair, online mentor to students in the Middle East (2008-2009)
YouthCAN mentor for student-run environmental conferences (Beirut and New York, 2002-2005)
Columbia University Advisory Committee on Socially Responsible Investing (2000-2001)