

Curriculum Vitae

NAME: VIJAI P. SINGH

MAILING ADDRESS: Department of Sociology
The Dietrich School of Arts and Sciences
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Pittsburgh, Pennsylvania 15260

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EDUCATION:

University of Wisconsin, Madison, 1970, Ph.D., Sociology
Lucknow University, India, 1961, M.A., Sociology
Lucknow University, India, 1959, B.A., Economics

POST-DOCTORAL TRAINING AND EXPERIENCE:

Post-doctoral Fellow (NICHD), Post-doctoral Institute in Demography,
University of North Carolina, Chapel Hill, Summer 1973.

Post-doctoral Fellow (National Institutes of Health), Mathematical Sociology,
Cornell University, Ithaca, New York, 1970-1971.

PRESENT POSITIONS:

Professor, Department of Sociology, The Dietrich School of Arts and Sciences,
University of Pittsburgh, 1981-present.

Professor (Joint Appointment), The Graduate School of Public and International Affairs,
University of Pittsburgh, 1981-present.

UCIS Research Professor, University of Pittsburgh, 2000-present.

Associate Chancellor Emeritus, 2014.

POSITIONS HELD:

Associate Chancellor, University of Pittsburgh, 1995-2014.

Associate Professor, Department of Sociology and Graduate School of Public and International Affairs, University of Pittsburgh, 1975-1980.

Assistant Professor, Department of Sociology, University of Pittsburgh, 1971-1975.

Director, University Center for Social and Urban Research, University of Pittsburgh, 1978-1996.

Senior Research Fellow, Centre d'Etudes de Populations, de Pauvrete et de Politiques Socio- Economiques, Luxembourg, 1999-2006.

Vice Provost for Faculty Affairs, University of Pittsburgh, 1992-1995.

Associate Provost for Academic Affairs, University of Pittsburgh, 1989-1992.

Interim Director, The Office of Institutional Research, University of Pittsburgh, 2002-2005.

Interim Director, Institute of Politics, University of Pittsburgh, 1999-2001.

Instructor, Department of Sociology, University of Wisconsin, Madison, 1969-1970.

DEPARTMENTAL COMMITTEES (SOCIOLOGY):

Member, Faculty Promotion and Tenure Committee, 2009-2010.

Member, Steering Committee, 1973-1975, 1977-1979, 1982-1984, 1986-1988.

Undergraduate Advisor, 1973-1974.

Member, Undergraduate Committee, 1972-1974.

Director, Graduate Studies, January-June, 1977.

Member, Graduate Committee, 1971-1973, 1983-1984.

UNIVERSITY COMMITTEES:

Chair, Special Committee for Honors Convocation and Commencement Speakers
And Honorary Degree Recipients, University of Pittsburgh, 1990-1995, 1999-2014.

Member, Advisory Committee, Center for West European Studies and European Union Center, University of Pittsburgh, 2000-present.

Member, Advisory Board, Environmental Studies, The Dietrich School of Arts and Sciences, University of Pittsburgh, 1996-present.

Member, Senate Council, University of Pittsburgh, 1995-2012.

Member, Anti-Discriminatory Policies Committee, University of Pittsburgh, 2011.

Coordinator, Regional Economic Impact Report, University of Pittsburgh, 1998, 2001, 2004 and 2008.

Co-chair, Environmental Policy Committee, Institute of Politics, University of Pittsburgh, 1993-2004.

Member, Policy and Programs Committee, Institute of Politics, University of Pittsburgh, 1991-2004.

Member, Entrepreneurial Oversight Committee, University of Pittsburgh, 1996-2008.

Chair, Advisory Committee for the Economic Impact of the University of Pittsburgh On the Region, University of Pittsburgh, 1997-1998.

Member, Executive Committee, University of Pittsburgh-Carnegie Mellon University, Keck Center for the Advanced Training in Computational Biology, 1992-1996.

Member, Faculty Retirement Policy Committee, University of Pittsburgh, 1995-1996.

Member, Advisory Committee, Mental Health Clinical Research Center in the Mood Disorders of Late Life, Western Psychiatric Institute and Clinic, University of Pittsburgh, 1993-1995.

Member, Search Committee, Senior Vice Chancellor for Health Sciences, University of Pittsburgh, 1992-1993.

Member, Search Committee, Senior Vice Chancellor for Business and Finance, University of Pittsburgh, 1991-1992.

Member, Pitt's United Way Internal Campaign Committee, University of Pittsburgh, 1986-1987.

Member, Steering Committee, Alzheimer Disease Research Center, University of Pittsburgh, 1983-1986.

Member, Senate Committee on Community Relations, University of Pittsburgh, 1982-1984.

Member, Graduate Council, The Dietrich School of Arts and Sciences, University of Pittsburgh, 1982-1984.

Member, Council on Interdisciplinary Programs, University of Pittsburgh, 1981-1985.

Member, Executive Committee, Urban Studies Program, University of Pittsburgh, 1978-1980.

ACADEMIC AWARDS AND HONORS:

Member, the Standing Group on Politics and Technology of the European Consortium for Political Research, 2012

Academic Delegate, Germany Today: Politics, Economics and Culture. German Academic Exchange Service and University of Bonn, Germany, Summer 1997.

Post-doctoral Fellow, Post-doctoral Summer Institute in Demography, University of North Carolina, Chapel Hill, 1973.

Post-doctoral Fellow (National Institutes of Health), Department of Sociology, Cornell University, Ithaca, New York, 1970-1971.

Fellow, Graduate School, University of Wisconsin, Madison, 1969-1970.

SELECTED CONFERENCE PARTICIPATION:

“The role of Universities in the evolution of technology-based economic development policies in the United States” (with Christopher Briem). Paper presented in the CONFERENCE ON POLITICS AND TECHNOLOGY. Berlin, Germany, June 27-July 1, 2013.

“Clusters of innovation: a regional perspective” (with Christopher Briem). Paper presented in the RESEARCH NETWORK ON TRANS-ATLANTIC COMPARISON OF CONTINENTAL INNOVATION MODELS. Oxford University (U.K.), November 13-14, 2009.

“Regional Economic Competitiveness and Globalization” (with Christopher Briem) . Paper presented in the WORKSHOP ON THE DETERMINANTS OF A COUNTRY’S CAPACITY TO ADJUST TO THE CHALLENGES OF GLOBALIZATION. European Commission, Brussels, Belgium, June 12, 2006.

“ The Biotechnology Cluster: A comparison of the Pittsburgh Region with most successful U.S. regions” (with Thomas Allen). Paper presented in the RESEARCH WORKSHOP ON INTERNATIONAL LOCATIONS IN BIOTECHNOLOGY: EUROPE AND THE UNITED STATES. University of Pittsburgh, Pittsburgh, Pennsylvania, October 6-8, 2004.

“Regional scientific base and the development of biotechnology” (with Christopher Briem). Paper presented in the Research Workshop on INTERNATIONAL RESEARCH NETWORK ON BIOECHOLOGY LOCATIONS. Friedrich-Schiller University, Jena, Germany, September 11-13, 2003.

“Economic consequences of biosciences research” (with Christopher Briem). Paper presented in the Research Workshop on INTERNATIONAL LOCATIONS IN BIOTECHNOLOGY, Friedrich-Schiller University , Jena, Germany, April 13-15, 2002.

Participant, SUMMER INSTITUTE IN LABOR STUDIES WORKSHOP, National Bureau of Economic Research and Harvard University, Boston, Massachusetts, July 30-August 3, 2001.

“Restructuring and labor market segmentation: Issues and concepts for assessing socio-economic change” (with William Haller). Paper presented in the SYMPOSIUM ON SOCIETAL STRATIFICATION AND SOCIAL BEHAVIOR (in Honor of Professor A. O. Haller), University of Wisconsin, Madison, Wisconsin, April 12-14, 1996.

“The steel industry in the Pittsburgh region in the U.S. context.” Paper presented (in absentia) in the CASTER CONFERENCE ON STEEL INDUSTRY, Cardiff, Wales, U.K., March 7-8, 1996.

“Dynamics of growth and restructuring in the Pittsburgh metropolitan region,” (with Frank Giarratani and Steven Rushen). Paper presented in the CEPS/INSTEAD Conference, Luxembourg, November, 1994.

“The new role of information technology in the international division of labor.” Paper presented in the THIRD INTERNATIONAL INFORMATION RESEARCH CONFERENCE ON RESEARCH CHALLENGES IN THE ECONOMICS OF INFORMATION, Roigny la Foret, France, July 11-13, 1993.

Organizer and Presider, TECHNOLOGY AND THE INTERNATIONAL DIVISION OF LABOR, (a THEMATIC session). The annual meeting of the AMERICAN SOCIOLOGICAL ASSOCIATION, Pittsburgh, Pennsylvania, August 20-24, 1992.

“Technology, Producer Services and the New International Division of Labor,” (with William Haller). Paper presented in the annual meeting of the AMERICAN SOCIOLOGICAL ASSOCIATION, Pittsburgh, Pennsylvania, August 20-24, 1992.

Panel Chair and Presenter, “Research centers: Encouraging scholarship.” Annual meeting of the COUNCIL OF COLLEGES OF ARTS AND SCIENCES, New Orleans, Louisiana, November 14-17, 1990.

“Pittsburgh region’s transformation into an advanced industrial economy.” Paper presented in the plenary session at the AMAGASAKI TOMORROW FOUNDATION, Amagasaki, Japan, June 16, 1987.

“State of the Regions” (with Sylvia Borzutzky). Paper presented in the CONFERENCE ON THE REGIONAL STRUCTURAL CHANGE IN INTERNATIONAL PERSPECTIVE, Essen, Germany, October 8-10, 1986.

Chair, the CONFERENCE ON THE REGIONAL STRUCTURE CHANGE IN INTERNATIONAL PERSPECTIVE: A COMPARISON OF PROCESSES AND POLICIES IN THE OSAKA AND PITTSBURGH REGIONS, University of Pittsburgh, Pittsburgh, Pennsylvania, September 16-17, 1986.

“Demographic, income and employment trends.” Paper presented in the CONFERENCE ON DEMOGRAPHIC AND SOCIAL CHANGE IN WESTERN PENNSYLVANIA: IMPLICATIONS FOR GRANTMAKERS, Duquesne Club, Pittsburgh, Pennsylvania, March 21, 1986.

Participant, WHITE HOUSE CONFERENCE ON PRODUCTIVITY, Department of State, Washington, DC, September 21-23, 1983.

“Regional economic and social indicator monitoring: Implications for economic development strategies.” Paper presented in a CONFERENCE ON REGIONAL DEVELOPMENT STRATEGY FOR THE 1980’S AND 1990’S, Hidden Valley, Pennsylvania, June 1-3, 1983.

Panelist, session on the “Youth Culture as a Generator of New Values.” INTERNATIONAL CONFERENCE ON HUMAN VALUES, The University of Tsukuba, Japan, January 20-22, 1983.

“The Contemporary Dynamics of Urban Policy in the Arab Middle East.” Paper presented in the INTERNATIONAL CONFERENCE ON URBANIZATION AND SOCIAL CHANGE IN THE ARAB WORLD, Bellagio Study and Conference Center, Lake Como, Italy, May 10-14, 1982.

Panelist, "United States-Japan symposium on urban life and culture." METROPOLIS: LOCUS OF CONTEMPORARY MYTHS, Tarrytown Conference Center, New York, October 1-4, 1982.

Member, Planning Committee, INTERNATIONAL CONFERENCE ON URBANIZATION AND SOCIAL CHANGE IN THE ARAB WORLD, Bellagio Study and Conference Center, Lake Como, Italy, May 10-14, 1982.

Respondent, session on "The international dimension of social science research." In a CONFERENCE ON SCHOLARSHIP, EDUCATION AND SCIENCE: THE INTERNATIONAL DIMENSIONS IN THE EIGHTIES, University of Pittsburgh, Pittsburgh, Pennsylvania, April 2-4, 1981.

Chair, session on "Policy research and policy arenas." A CONFERENCE ON KNOWLEDGE USE, University of Pittsburgh, Pittsburgh, Pennsylvania, March 18-20, 1981.

"Use of social science knowledge and data in policy making: The deliberations on the compensatory education policy by the U.S. Congress." Paper presented in the CONFERENCE ON THE POLITICAL REALIZATIONS OF SOCIAL SCIENCE KNOWLEDGE AND RESEARCH: TOWARDS NEW SCENARIOS. Institute for Advanced Studies, Vienna, Austria, June 18-20, 1980.

Organizer, roundtable discussion on "Statistical techniques in public policy analysis." the AMERICAN SOCIOLOGICAL ASSOCIATION MEETING, New York, New York, August 30-September 3, 1976.

Panelist, discussion session on "Perspectives on transnational social sciences networks and diffusion of knowledge." the AMERICAN SOCIOLOGICAL ASSOCIATION MEETING, New York, New York, August 30-September 3, 1976.

"Some theoretical and methodological problems in the study of ethnic identity: A cross-cultural perspective." Paper presented in the CONFERENCE ON ISSUES IN CROSS-CULTURAL RESEARCH, The New York Academy of Sciences, New York, New York, October 1-3, 1975.

"Social indicators of quality of life in metropolitan U.S.A." Paper presented in the AMERICAN SOCIOLOGICAL ASSOCIATION MEETING, San Francisco, California, August 25-29, 1975.

"Mobility patterns in three scientific disciplines" (with R. McGinnis). Paper presented in The Seminar on Science Manpower in the U.S., the AMERICAN SOCIOLOGICAL ASSOCIATION MEETING, New Orleans, Louisiana, August 28-31, 1972.

“Legal perceptions and usages in North Indian Village disputes.” Paper presented in the AMERICAN POLITICAL SCIENCE ASSOCIATION MEETING, Washington, D.C., September 5-9, 1972.

“Unity and Diversity: The dynamics of ethnic relations.” Paper presented in the CONFERENCE ON ETHNIC RELATIONS at the State University of New York at Buffalo, Buffalo, New York, October 20-21, 1972.

“Emerging patterns of a stratification system in India”. Paper presented in the AMERICAN SOCIOLOGICAL ASSOCIATION MEETING , Denver, Colorado, August 30-September 2, 1971.

PUBLICATIONS:

BOOKS

Research Methodology: Social, Spatial and Policy Dimensions with H.N. Misra (eds.), New Delhi: Rawat Publications, 1998.

Environment, Development and Education with R.P. Misra and A.G. Ghaznawi (eds.). New Delhi: Heritage Publishers and Sustainable Development Foundation, 1994.

Regional Structural Change in International Perspective: Public Private, University Partnerships in Regional Revitalization (in German). Bonn, Germany: Friedrich Ebert Stiftung, 1987.

Caste, Class and Democracy: Changes in a Stratification System. Boston: Schenkman Publishing Company 1976.

Community Development in India (in Hindi). Allahabad, India: Ram Narain Lal-Beni Prasad, 1965.

PAPERS

“The Role of Universities in the evolution of Technology Based Economic Development policies in the United States”, with Christopher Briem, in Handbook of Politics & Technology, Ulrich Hilpert (ed.), forthcoming, Routledge, New York, 2014.

“Metropolitan Migration Patterns of the Scientific and Engineering Workforce Within the United States” pp. 78-95, with Christopher Briem, in

- Networking Regionalized Innovative Labor Markets, Ulrich Hilpert (ed.), Routledge, New York, 2013.
- “Institutional Contexts for Scientific Innovation and Economic Transformation” with Thomas Allen. EUROPEAN PLANNING STUDIES, 14:665-679, 2006.
- “Islands of innovation and clustering decisions of U.S. high-tech firms: Theory Evidence and patterns” pp.94-114, with Thomas Allen and Ulrich Hilpert Regionalization of globalized innovation: Locations for advanced industrial development and disparities in participation. Ulrich Hilpert (ed.), London: Routledge, 2003.
- “Dynamics of growth and restructuring in the Pittsburgh Metropolitan region,” pp. 136-152, with Frank Giarratani and Christopher Briem in Regionalization of globalized innovation: Locations for advanced Industrial development and disparities in participation. Ulrich Hilpert (ed.), London: Routledge, 2003.
- “Comparative social research: Some limited application in regional analysis,” pp. 52-67, with William Haller, in H.N. Misra and Vijai P. Singh (eds.), Research Methodology: Social, Spatial and Policy Dimensions, New Delhi: Rawat Publications, 1998.
- “Analytical Techniques for the Study of Regional Structural Change,” pp. 433-462, with Kamlesh Misra, in H.N. Misra and Vijai P. Singh (eds.), Research Methodology: Social Spatial and Policy Dimensions, New Delhi: Rawat Publications, 1998.
- “Technology, producer services and the new international division of labor,” pp. 9-18, with William Haller, Journal of Developing Societies. Vol. XII, No. 1, 1996.
- “The new role of information technology in the international division of labor,” pp. 64-80, with William Haller, in Mary Feeny and Maureen Grieves (eds.), Changing Information Technologies: Research Challenges in the Economics of Information. London, England: Bowker-Saur, 1994.
- “The underclass in the United States: Some correlates of economic change,” pp. 505-521, Sociological Inquiry, 61: 1992.
- “Sociopsychological perspectives on chemical warfare,” pp. 1-12, in S.M. Somani (ed), Chemical Warfare Agents. New York: The Academic Press, 1992.

- “Regional structural change in international perspective,” pp. 433-477, in R.P. Misra (ed.), International Dimension of Labor and Regional Development, New Delhi: Concept Publishing Co., 1989.
- “The state of the mature industrial regions in Western Europe and North America,” pp. 212-227, with Silvia Borzutzky, Urban Studies, 25: 1988.
- “Regional Structural change and restructuring strategies,” pp. 63-92, (in Japanese), with Otohiko Okugawa and Kiyofumi Kawaguchi, Ritsumeika Review of Industrial Society, 23: 1987.
- “Pittsburgh’s transformation into an advanced industrial economy,” 25pp., (in Japanese), Amagasaki Tomorrow Foundation, Amagasaki, Japan, 1987.
- “Population Decline” (A summary of the paper “Demographic Trends in Western Pennsylvania”).pp. 1-4. Population Reference Bureau: Washington, D.C., 2: 1986.
- “Urban America” Some patterns of emerging social and institutional relations,” pp. 44-52, in Dimitri Y. Balamotis and Shigenobu Yoshida (eds.), Metropolis: The Locus of Contemporary Myths. Tokyo: National Institute For Research Advancement (also in Japanese), 1984.
- “Use of social science knowledge and data in public policy making: The deliberations on the compensatory educational policy by the U.S. Congress,” pp. 295-305, in B. Holzner, et al, (eds.), Realizing Social Science Knowledge. Wien-Wurzburg; Physica-Verlag, 1983.
- “The contemporary dynamics of urban policy in the Arab Middle East,” pp. 205-209, EKISTICS: The Science and Study of the Human Settlements, 50: 1983.
- “Urbanization trends and urban policy issues,” pp. 70-85, in Giri Raj Gupta (ed.) Urban India. Delhi: Vikas Publishing House, 1983.
- “Some problems and opportunities for urban research,” pp. 237-239, EKISTICS: The Science and Study of Human Settlements. 50: 1983.
- “Comparative methodological approaches in the study of modernization,” pp. 39-51, in M.O. Attir, et al, (eds.), Directions of Change: Modernization Theory, Research and Realities. Boulder: Westview Press, 1981.

“Ascription and intergroup relations: The impact of legal and political changes,” pp. 97-113, in Cora B. Marrett, et al, (eds.), Research in Race and Ethnic Relations: A Research Annual. Volume 2. Greenwich, Connecticut: Jai Press, Inc., 1980.

“Some theoretical and methodological problems in the study of ethnic identity: A cross-cultural perspective,” pp. 32-48, Annals of the New York Academy Of Sciences, 285: 1977.

“Unity in diversity: The dynamics of ethnic relations in South Asia,” pp. 74-80, in T.S. Kang (ed.), Ethnic Relations in Asia. Council on International Studies, State University of New York at Buffalo, New York, 1976.

“Refugee housing for developing countries,” pp. 167-175, with F. Cunny, et al, Proceedings for the Fifth International Design Research Association (EDRA) Conference, 5: 1974.

“Some methodological issues in the politics of U.S. population policy: the cohort Analysis,” pp. 36-51, in Elihu Bergman and Virginia Gray (eds.), Political Issues in the U.S. Population Policy. New York: Lexington Books, 1974.

“Problems of theorizing in empirical research: The case of political participation Studies,” pp. 150-160, in K.D. Sharma (ed.) Basic Issues in Social Sciences. Bombay: Academic Journal of India, 1968.

BOOK REVIEWS:

William J. Wilson (ed.). The Ghetto Underclass: Social Science Perspective. Newbury Park, Sage, 1993.

Urban Studies, 31: 1421-1423, 1994.

David Winler, The Power Motive. New York: The Free Press, 1973. The American Anthropologist, 77: 363-364, 1974.

MAJOR RESEARCH REPORTS:

State of the Region, with Ralph Bangs (eds.), University Center for Social and Urban Research, University of Pittsburgh, Pittsburgh, Pennsylvania, March 1992.

State of the Region, with Ralph Bangs (eds.), University Center for Social and Urban Research, University of Pittsburgh, Pittsburgh, Pennsylvania, November 1990.

State of the Region, with Ralph Bangs (eds.), University Center for Social and Urban Research, University of Pittsburgh, Pittsburgh, Pennsylvania, September 1989.

State of the Region, with Ralph Bangs (eds.), University Center for Social and Urban Research, University of Pittsburgh, Pittsburgh, Pennsylvania, April, 1988.

State of the Region, with Ralph Bangs (eds.), University Center for Social and Urban Research, University of Pittsburgh, Pittsburgh, Pennsylvania, September 1984.

The National Nuclear Power Plant Emergency Information Systems: Sampling and Survey Procedures, with George Rogers and Dolores Fowler. Federal Emergency Management Agency, Washington, D.C., 1981.

A Socio-economic Needs Assessment Study within the Hispanic Community in the Washington, D.C. Metropolitan Area, with Elaine McGivern. Community Services Administration, Washington, D.C., 1981.

Survey Sampling Frames: Usage Procedures and Tasks, with Dolores Fowler. The Buhl Foundation and Hillman Foundation, Pittsburgh, Pennsylvania, 1980.

EDITORIAL BOARDS:

Member, Editorial Board, Sociological Inquiry, 1987-1993.

Editor, PARIYOJAN-An International Journal of Planning and Policy Sciences, 1986-1989.

Member, Editorial Board, PARIYOJAN-An International Journal of Planning and Policy Sciences, 1981-1989.

Occasional Reviewer, American Sociological Review.

Occasional Reviewer, American Political Science Review.

Occasional Reviewer, Journal of Sociology of Education.

Occasional Reviewer, Corruption and Reform: An International Journal

Occasional Reviewer, Rutgers University Press.

Occasional Reviewer, The University of Wisconsin Press.

Occasional Reviewer, The University of Pittsburgh Press.

PROFESSIONAL ACTIVITIES:

Member, Steering Committee for the Standing Group on Politics and Technology of the European Consortium for Political Research, Friedrich-Schiller University Jena, Germany 1991-present.

Member, Pennsylvania Attorney General's Asian American and Pacific Advisory Committee, Commonwealth of Pennsylvania, Harrisburg, Pennsylvania 2006-present.

Member of the Board of Directors, Pennsylvania Economy League, Allegheny Conference on Community Development, Pittsburgh, Pennsylvania 1996-2010.

Member, Three Rivers Workforce Investment Board, Pittsburgh, Pennsylvania 1999-2004.

Member, Pennsylvania Governor's PRIME COUNCIL, Commonwealth of Pennsylvania, Harrisburg, Pennsylvania 1996-2002.

Participant, Economic Impact Study. Regional Renaissance Initiative, Allegheny Conference on Community Development, Pittsburgh, Pennsylvania 1997.

Commissioner, Governor's Commission on improved Management and Cost Control, Commonwealth of Pennsylvania, Harrisburg, Pennsylvania 1995-1996.

Co-chair, Outcome Evaluation Task Force for The Allegheny County Medicaid Managed Care Initiative, Allegheny County 1994-1995.

Chair, Population and Economic Forecast Committee, Southwestern Pennsylvania Regional Planning Commission 1992-1995.

Member, Transportation Strategy Policy Committee, Southwestern Pennsylvania Regional Planning Commission 1989-1992.

Consultant, Project on Survey of Small and Medium Size Manufacturing Companies in the Pittsburgh region, Carnegie Mellon University 1986-1987.

Consultant, International Institute for Development Research, Allahabad, India 1982-1989.

Consultant, Hospital Data Center, American Hospital Association, Chicago, Illinois 1980-1982.

Consultant, Redefinition of Higher Education Regional Boundaries, Pennsylvania Department of Education, Harrisburg, Pennsylvania 1978.

Consultant, Administrative Problems Identification Survey, Northwestern State Of Nigeria 1975.

Consultant, Emergency Housing Project, Department of Building Studies, Carnegie Mellon University, Pittsburgh, Pennsylvania 1973-1976.

Consultant, Sociological Systems, Westinghouse Research Laboratories, Pittsburgh, Pennsylvania 1973-1975.

