

JAMES A. DOBBIN

PROJECT DIRECTOR, STRATEGIC
SPATIAL DEVELOPMENT PLANNER

James Dobbin is a pioneer and established global leader in strategic spatial development planning for sustainable and resilient development of land, coast, and ocean environments. Propelled by visionary original research while attending Harvard University in the mid-70s, he established one of the first firms in the world focused on Integrated Coastal Management Planning (ICMP) and Ocean Planning (Marine Spatial Planning [MSP]). He proceeded to conduct pioneering projects around the world and is sought out when different, sustainable outcomes are a priority and fresh, deep thinking is a prerequisite.

Mr. Dobbin is founder, president and CEO of Dobbin International (DI), based in the Washington, DC, area. Mr. Dobbin has been leading multi-sector, collaborative regional development planning projects in agriculture, forestry, conservation, fisheries, tourism and infrastructure projects, often working closely with mining and oil and gas companies showing them how to unlock the unrealized potential in the region's in which they operate. He has worked in over 106 countries and led over 250 regional development planning projects.

He has worked with numerous clients including multi-laterals and bi-laterals (IFIs), governments, and international private sector mining, oil and gas, agriculture, transport and tourism companies and has prepared detailed spatial and economic development plans for multi-sector development – including agriculture, forest plantations, national park management plans, marine protected area and coastal zone man-

A black and white portrait of James A. Dobbin, a middle-aged man with short hair, smiling warmly. He is wearing a dark jacket over a light-colored button-down shirt. The background is a textured brick wall.

NATIONALITY

Canadian and American

EDUCATION

- MLA, Harvard University, Harvard Graduate School of Design, Regional Planning (1976)
- BLA, University of Toronto, Department of Landscape Architecture, Regional Planning (1970)

PROFESSIONAL AFFILIATIONS

- Member, World Commission on Protected Areas (WCPA)
- Member, American Society of Landscape Architects (ASLA)
- Member/Fellow, Canadian Society of Landscape Architects (FCSLA)
- Member, Ontario Association of Landscape Architects (OALA)

agement plans, sustainable tourism and ecotourism strategies, tourism master planning, strategic spatial development plans, and green growth and climate change resilience strategies. He has worked on numerous regional development planning related to mining and/or oil and gas projects in Madagascar, Mozambique, South Africa, Gabon, Guinea, and Colombia funded by Rio Tinto, Anglo American, Anglo American Platinum, DeBeers Group of Companies, Cerrejon Mine (Anglo American, BHP Billiton, Glencore) and Anadarko Petroleum Corporation (Total) as well as national governments and The World Bank.

DI's projects often engage national, provincial and local governments in creating through full collaboration sustainable national, provincial, prefecture and community development strategies and investment action plans to diversify the economy. The plans include integrated, multi-sector policies, strategies and plans for sustainable tourism, agriculture, forest plantation, conservation, landscape restoration, infrastructure, urban and rural development. James Dobbin has been involved as team leader and principal planner in all DI projects presented in this proposal.

Mr. Dobbin holds a master's degree from Harvard University, Graduate School of Design – specializing in regional planning.

Positions

- 1976 – Present: Dobbin International Inc, Founder, President & CEO
- 1970 – 1976: Richard Strong - Steven Moorhead Ltd, Senior Landscape Architect/Regional Planner
- 1970: Hough Stansbury Limited, Landscape Architect/Regional Planner

Relevant Dobbin International Experience

Albania

- Team Leader and Project Director, *Albania – North Coast and South Coast Coastal Zone Management Plan*, for The World Bank and Ministry of Environment

Barbados

- Strategic Spatial Planner and Tourism Planner, *Barbados - Walkers Reserve Integrated Master Plan*, in collaboration with Stantec for WIRRED and IDB

Canada

- Team Leader and Project Director, *Canada - Gulf of Maine International Maritime Boundary Dispute Between Canada and the USA*, for Canadian Department of External Affairs at The World Court in The Hague

- Team Leader and Project Director: *Canada – Lancaster Sound Regional Development Plan – Green Paper*, for DIAND and the Canadian Parliament

China

- Team Leader and Project Director, *China – Integrated Coastal Zone Management Plans for Liaoning, Shandong, Jiangsu, and Fujian Provinces*, in collaboration with ESG International, funded by The World Bank and CIDA Inc.

Colombia

- Team Leader and Project Director, *Colombia - Strategy for Sustainable and Resilient Development of La Guajira, Colombia*, for Cerrejón Mine (Anglo American, BHP Billiton, Glencore)

Cuba

- Team Leader and Project Director, *Cuba – Sabana-Camaguey Ecosystem Biodiversity Protection and Sustainable Development Project – Phases 1 & 2*, for UNDP (GEF) and Ministry of Environment, 2003

Egypt

- Team Leader and Project Director, *Egypt – South Sinai Tourism Development Strategy*, for EU and PA Consulting

Guinea

- Team Leader, *Guinea - Strategy for Sustainable Development of Boke Prefecture, Guinea*, for The World Bank and Ministry of Mines and Geology, PAGSEM
- Project Director, *Guinea - Simandou - Strategic Regional Development Planning Program Related to the Simandou Mine*, for Rio Tinto Guinea UK
- Project Director, *Guinea - Simandou - Forécariah Prefecture Strategic Plan, Faranah Sub-Prefecture Management Plan and Beyla Sub-Prefecture Management Plan*, for Rio Tinto Guinea & France
- Regional Planner, *Guinea - World Bank Growth Fund Competition for Sustainable Development of Guinea*, for the World Bank Extractives Group

India

- Senior Coastal Management Planner, *India - National Coastal Zone Management Strategy*, for the World Bank

Indonesia

- Team Leader and Project Director, *Indonesia – Coastal Environmental Management Project (CEMP)*, for Asian Development Bank and Ministry of Environment

Madagascar

- Strategic Spatial Development Planner, *Madagascar - Monograph on a Study of the Future Impact of Minerals, Hydrology, and Ecology on Integrated Regional Economic Development in the Anosy Region, Madagascar*. In collaboration with the United States Geological Survey, for the World Bank and Department of Mineral Resources, Madagascar
- Team Leader and Project Director, *Madagascar, Anosy Regional Development Framework*, for Rio Tinto

Madagascar, World Bank, and Anosy Committee for Regional Development

- Team Leader and Project Director, *Madagascar – Manantenina Bauxite Regional Development Project*, for ACCESS Madagascar and ALCAN

Mexico

- Senior Spatial Development Planner, *Mexico - Sustainable Tourism Development Study for the Region of Holbox Island and Chiquilá*, for Stantec

Mozambique

- Team Leader and Project Director, *Mozambique Systematic Country Diagnostic*, for World Bank
- Team Leader and Project Director, *Mozambique - Agro-Forestry Village Strategic Planning Project: Thirteen Districts and Five Provincial Strategic Plans*, for U.S. Department of Agriculture and Technoserve
- Team Leader and Project Director, *Mozambique - Tete-Mecuze Growth Corridor Strategic Plan Connecting Five Provinces*, for Rio Tinto Mozambique
- Team Leader and Project Director, *Mozambique - Cabo Delgado Province Strategic Plan*, for Anadarko Petroleum Corporation (Total)
- Team Leader and Project Director, *Tanzania and Mozambique - Spatial Development Planning Project – Perspectives on Regional Development: Southern Tanzania and Northern Mozambique*, for Aga Khan Development Network
- Team Leader and Project Director, *Tanzania and Mozambique - Spatial Development Planning Project - Perspectives on Tourism Development: Southern Tanzania and Northern Mozambique*, for Aga Khan Development Network
- Team Leader & Senior Spatial Planner, *District Spatial Planning Project for Palma District Strategic Plan & Mocimboa da Praia District Strategic Plan in Cabo Delgado Province and Nacala-Porto District Strategic Plan & Mossuril District Strategic Plan*, for the World Bank and MICOA (2006-2007)
- Senior Spatial Planner, for *Vilankulos Urban Development Strategy* for USAID and ARD (now Tetra Tech International Consulting) (2009)
- Team Leader & Senior Spatial Planner, *Cabo Delgado Province Equity Story* for ThirdWay Africa, Dobbin International Inc, and the World Bank
- Team Leader & Senior Spatial Planner, *Changing Outcomes in Africa – the Pathway to Multi-sector High-impact Investment for Shared Prosperity* for the World Bank and Government of Cabo Delgado and Niassa Provinces
- Team Leader & Senior Spatial Planner, *Integrated Regional Development Planning – Applying the Growth Poles Concept in the Zambezi River Valley* for the World Bank

- Team Leader & Senior Spatial Planner, *National Crop Suitability Research and Assessment (14 Crops) and Climate Change Project* for U.S. Department of Agriculture and Technoserve Mozambique
- Team Leader & Senior Spatial Planner, *Niassa Province Equity Story* for ThirdWay Africa, Dobbin International Inc, and the World Bank
- Team Leader & Senior Spatial Planner, *Supporting the Policy Dialogue on Growth Poles in Mozambique - Linking Economics and Planning - Spatial Development Planning (Growth Poles and Corridors) and Economic Development* for the World Bank

Saudi Arabia

- Team Leader and Project Director, *Saudi Arabia – Saudi Arabian Arabian Gulf and Red Sea Coastal Zone Management Project*, for IUCN and Ministry of Environment and Defense

South Africa

- Team Leader and Project Director, *South Africa: Limpopo Provincial Strategy for Resilient Sustainable Development, Linking People, Places, Potential TM: South Africa, Limpopo Province, Mogalakwena Municipality, Thabazimbi Municipality, Musina Municipality, and Blouberg Municipality*. Led the development of a series of eight Consultant Reports on resilient sustainable development for Anglo American, Anglo American Platinum, and DeBeers Group of Companies
- Team Leader and Project Director, *South Africa - Northern Cape Economic Development initiative: Geospatial Analysis (Regional) on Diversification Opportunities (Part 3/3)*, in collaboration with CSIR and Zutari for Anglo American and The Impact Catalyst

Sultanate of Oman

- Team Leader and Project Director, *Sultanate of Oman - Integrated Coastal Zone Management Projects for the Greater Capital Area and Quriat to Ra's al Hadd*, for IUCN and the Ministry of Commerce and Industry
- Team Leader and Project Director, *Sultanate of Oman - National Coastal Erosion Prevention Project: - Draft Regulations for the Prevention of Coastal Erosion* for Ministry of Regional Municipalities and Environment

Awards and Fellowships

- Parks Canada Graduate Scholarship (Harvard University - 1974-1975)
- Parks Canada Graduate Scholarship (Harvard University - 1975-1976)
- Ford Foundation Research Grant (Application of Satellite Imagery for Land and Marine Planning – Harvard University, (1975-1976)
- Janet Darling Webel Memorial Scholarship (Harvard University - 1975)

- Nominated as a Fellow of the Canadian Society of Landscape Architects (2008)

Selected Publications, Lectures and Conference Presentations

James Dobbin is widely published in national development plans, integrated coastal management planning, national park and marine protected area planning, and sustainable tourism and ecotourism planning fields. He often participates in international and national conferences presenting his unique projects demonstrating resilient and sustainable master planning, tourism planning, and national and regional development planning. Additional publications available on request.

Dobbin, J; Marquez, T; Rietbergen-McCracken, J., 2021. *Spatial Planning for Resilient Economic Diversification. La Guajira, Colombia*. World Bank publication (in press).

James Dobbin and Matthew Chadwick, 2016. *Limpopo Provincial Strategy for Resilient Sustainable Development - Linking People, Places and Potential*. IFC Sustainability Exchange, Infrastructure & Natural Resources. May 25-26, 2016. Washington, DC USA

James Dobbin, 2015. *Cabo Delgado Province: Planning as Usual... or Smart Planning? The Role of Strategic Spatial Planning to Achieve Sustainable Development of Cabo Delgado Province*. August 24-28, 2015. Pemba, Mozambique.

James Dobbin, 2015. *Niassa Province: Planning as Usual... or Smart Planning? The Role of Strategic Spatial Development Planning to Achieve Sustainable Development of Niassa Province*. September 1-4, 2015. Lichinga, Mozambique.

James Dobbin, 2014. *Best Practices for Beach and Shoreline Protection and Certification and Creating Sustainable Coastal Destinations*. Innovators Symposium Showcases Eco-Practices of Large Tourism Companies and Boutique Resorts - New Initiatives to Strengthen Sustainable Tourism in the Caribbean. July 9-11, 2014. Grenada, West Indies

James Dobbin, 2014. *Investment as usual... or smart? The Role of Strategic Spatial Development Planning*. Presentation to G19 Ambassadors and International Financial Institutions at the Residence of the Ambassador of Ireland. March 19, 2014 in Maputo, Mozambique

James Dobbin, 2013. *Making Money, Reducing Risk, and the Role of Strategic Spatial Planning for Sustainable Development™*. 2013 IFC Sustainability Summit: Dealing with Uncertainty - Addressing Sustainability Challenges in Fragile Situations. June 18, 2013. Washington, DC USA

James Dobbin, 2013. *Making Money, Reducing Risk, and the Role of Strategic Spatial Development Planning - Guinea, Madagascar, Tanzania, and Mozambique™*. Presentation at IFC (World Bank) Sustainability Learning Exchange Mining INDABA Conference, February 5, 2013. Cape Town, South Africa

James Dobbin, 2012. *...Putting the World Bank Out of Business - Improving Development Outcomes by Using Spatial Thinking, Planning, and Economics*. Presentation 20 October 2012 at The World Bank, Washington, DC.

Andrew B. Anderson, 2010. *From Coast to Coast - A Conversation with James Dobbin*. Published in the Ontario Association of Landscape Architects (OALA) Ground Magazine. April.

Interview with James Dobbin, 2008. *Madagascar - Unlocking the Potential. Interview in Landscape Paysages - Beyond Our Borders*, The Canadian Society of Landscape Architects (CSLA) Magazine. Fall | Automne 2008, vol 10_no.4.

James Dobbin and Tundi Agardy, 2008. *Ecosystem-Based Management (EBM) Perspective: A Planner's View on Working Across Spatial Scales*. In *Marine Ecosystems and Management Newsletter*. MEAM. Vol 1, No 2. December - February 2008.

Elisa Eva García, James Dobbin, José Mena y Pedro M. Alcolado, 2008. *Planeamiento Ambiental, Impactos de la Infraestructura Turística Sobre la Biodiversidad y Prácticas Sostenibles*. In *Ecosistema Sabana-Camaguey : Estado actual, avances y desafíos en la protección y uso sostenible de la biodiversidad*.

James Dobbin, 2007. *Keynote Address - Sustainable Landscapes | Integrated Regional Development and Tourism Planning in the Coastal Zone - Madagascar, Tanzania, Mozambique, and Cuba*. Canadian Society of Landscape Architecture (CSLA) Conference Theme - Landscape Synergy: An Exchange of Culture, Ideas and Opportunities. CSLA Conference from February 28 -March 3, 2007. Havana, Cuba.



TATIANA MÁRQUEZ

PROJECT MANAGER, SENIOR STRATEGIC
SPATIAL DEVELOPMENT PLANNER,
ENVIRONMENTAL ENGINEER

Ms. Marquez is an environmental engineer with a master's in Urban and Environmental planning and a Fulbright Scholar. She has over 16 years of national and international experience in conducting environmental assessments, spatial planning, and project management. Her experience includes applying technical tools such as spatial analysis for decision-making, prioritization and implementation of recommendations and participatory assessments. Her work focuses on planning for land-use decision-making, coastal planning, and ecosystem-based approaches to climate change adaptation.

During the last 6 years, while working with Dobbin International, Ms. Marquez has been developing multi-sector strategic spatial plans in South Africa, Guinea, and Colombia. She specializes in creating suitability analyses for agriculture, specific agriculture crops, tourism, conservation restoration and multi-sector scenario analyses and strategic plans at provincial, district and local levels.

Ms. Marquez participated as a senior spatial planner for the Strategy for the Sustainable Development of Boke Prefecture through DI's contract with the Ministry of Mines (Guinea) funded by The World Bank Group. She worked with the DI team to prepare all spatial planning and spatial analyses leading to the strategic plan. Specific tasks included the development of geospatial database, spatial modeling, and the planning strategy formulation; geospatial analysis including landscape suitability modeling for agriculture, crop and forestry suitability models, conservation planning, tourism planning, and scenario-based planning; identification of environment

NATIONALITY & RESIDENCE

Colombian, Colombia and USA

EDUCATION

- Master of Urban and Environmental Planning - Fulbright Scholar, University of Virginia, USA
- Executive Development Management Program, Universidad Austral, Buenos Aires, Argentina
- Bachelor, Environmental Engineering, Universidad de los Andes, Bogotá, Colombia

PROFESSIONAL AFFILIATION

- Professional Association of Diving Instructors (PADI)

site assessments, dasymetric modeling and population and poverty projections and the development of the final report for presentation to client.

Specifically, in Colombia Tatiana has conducted spatial planning analysis to identify the best ecosystem-based adaptation strategies for Cartagena to mitigate effects of climate change, including a cost-benefit analysis to establish a strategy for climate resilience.

For the Strategy for Resilient and Sustainable Development of La Guajira, Colombia project she was the project manager and senior spatial planner for the DI team that developed a socio-economic development to ensure economic diversification of La Guajira Department and region's local economy and reducing dependency on the extractives economy. The regional plan focuses on unlocking the potential of the region, prioritizing support sectors such as conservation, restoration, physical infrastructure and urban development as strong bases to support the development of the other economic sectors as tourism, agriculture, livestock, forest plantations among others. For the development of the plan, Tatiana has been leading the DI team on field trips by land, air and boat to validate the analyses on the ground as well as interview more than 100 stakeholders to gather their insights and knowledge about community and territorial issues and needs.

As a scuba diving instructor, she has travelled the Caribbean looking for ways to make the Caribbean islands more resilient. She has experience in environmental negotiation after working for the Institute for Environmental Negotiation at the University of Virginia and on the implementation of renewable energy projects on off-the-grid zones in Colombia. She manages DI's Colombian office, a local DI office for Colombian, Caribbean, Central America and Latin American projects.

Awards and Fellowships

- Recipient of Fulbright Scholarship for Master of Urban and Environmental Planning Degree
- Recipient of Procter & Gamble Fellowship - Gateway to Excellence at Universidad de los Andes
- Highest Grade Point Average (GPA) in Environmental Engineering Cohort

Positions

- Spatial Analyst, Regional Planner & Project Manager, Dobbin International Inc, 2015 – present
- Project Associate, Office of Environmental Sustainability, City of Charlottesville, Virginia, 2014 – 2015

- Project Associate, Institute for Environmental Negotiation, University of Virginia, 2014 – 2015
- Director, Environmental, Social and Sustainability; CEO of Poligrow Foundation, Poligrow, Colombia, 2008 – 2013
- Project Coordinator, Organization for Environmental Protection and Education, 2006 – 2008

Relevant Dobbin International Experience

- Senior Spatial Development Planner, *South Africa - Northern Cape Economic Development initiative: Geospatial Analysis (Regional) on Diversification Opportunities (Part 3/3)*, in collaboration with CSIR and Zutari for Anglo American and The Impact Catalyst
- Project Manager and Senior Spatial Development Planner, *Colombia - Strategy for Sustainable and Resilient Development of La Guajira, Colombia*, for Cerrejón Mine (Anglo American, BHP Billiton, Glencore). Designing geospatial analytical modules to conduct spatial analysis on population distribution, agricultural suitability, accessibility, climate change, energy potentials, and different development scenarios.
- Dobbin, J; Marquez, T; Rietbergen-McCracken, J., 2021. *Spatial Planning for Resilient Economic Diversification. La Guajira, Colombia*. World Bank publication (in press).
- Senior Spatial Development Planner, *Strategy for Sustainable Development of Boke Prefecture, Guinea*, for World Bank and Ministry of Mines and Geology, PAGSEM, 2018-2019
- Senior Strategic Spatial Development Planner, *Limpopo Province Strategic Plan for Resilient Sustainable Development, South Africa*, for Anglo America, Anglo American Platinum, and DeBeers Group of Companies (three phases), 2015-2017

Other Significant Experience

- Climate Change Consultant, Spatial Analysis to Develop Adaptation Measures for Cartagena, Colombia, for Terrasos SAS, 2016-2017
- Director of Environment, Social and Sustainability, Developed a Sustainable Oil Palm Plantation Based on the Roundtable of Sustainable Palm Oil (RSPO) and the Rainforest Alliance Guidelines, Poligrow Colombia Ltda, 2008-2015
- Chief Executive Officer (CEO), Manage Inter-American Development Bank Funds for Clean Energy Project, Electrificadora de Mapiripan, 2010-2012

Selected Publications

- Dobbin, J; Marquez, T; Rietbergen-McCracken, J., 2021. *Spatial Planning for Resilient Economic Diversification. La Guajira, Colombia*. World Bank publication (in press).



JENNIFER RIETBERGEN-McCRACKEN

SENIOR SUSTAINABLE DEVELOPMENT
RESEARCHER & ANALYST

Ms. Rietbergen-McCracken specializes in researching and authoring on mining, sustainable development, and conservation issues, including brochures and briefs and full-length books. She has extensive field experience in Africa, Asia, and Latin America and has consulted for a wide range of clients including international organizations such as the World Bank, IFC, UNEP, UNCTAD and IUCN, and bilateral development agencies and international NGOs.

NATIONALITY & RESIDENCE

British and Irish, France

EDUCATION

- Post-Graduate Diploma in Agricultural Development, University of London, Wye College of Agriculture
- MSc, Environmental Technology, Imperial College London, Institute of Environmental Technology
- BSc, Zoology, University of Aberdeen, Department of Zoology

Jennifer Rietbergen-McCracken is a researcher and writer in the fields of mining, natural resource management, sustainable development, and biodiversity conservation. Her areas of expertise include analysing mining companies' policies and practices on environmental, economic, social and governance issues; researching social and participatory development issues; developing and applying assessment and planning methodologies; and providing policy analysis and advice on the integration of poverty reduction and conservation.

Jennifer has worked with DI since 2012 on strategic regional development planning projects in Guinea (Southern Guinean Growth Corridor, Forecariah Prefecture Strategic Plan, Faranah and Beyla Sub-Prefecture Management Plan), South Africa (Limpopo Province Strategic Plan, Mogalakwena and Thabazimbi Districts Strategic Plans), the Mozambique (Tete-Mecuse Transport and Resource Corridor), and Colombia (La Guajira project).

Jennifer holds a master's degree in Environmental Technology from Imperial College London and a Post-Graduate Diploma in Agricultural Development from the University of London. She is a founding board member of a non-profit organization that supports social enterprise projects in developing countries.

Positions

- Freelance Consultant, Mining and Sustainable Development, France, September 2019-present
- Head of Research, Responsible Mining Foundation, Switzerland, November 2016 – May 2019
- Freelance Consultant, Sustainable Development, Switzerland and France, 1997-2016
- Senior Sustainable Development Researcher & Analyst, Dobbin International Inc, 2012-present
- Participatory Development Consultant World Bank, Washington, DC, 1993-1997
- Freelance Consultant in Participatory Development Planning, London & Washington, DC, 1991-1993
- Research Associate, Sustainable Agriculture Program, International Institute for Environment and Development, London, 1987-1991

Relevant Dobbin International Experience

- Senior Author - Dobbin, J; Marquez, T; Rietbergen-McCracken, J., 2021. *Spatial Planning for Resilient Economic Diversification. La Guajira, Colombia*. World Bank publication (in press).
- Senior Sustainable Development Researcher & Analyst, Simandou - Southern Guinean Growth Corridor, Guinea, for Rio Tinto, 2012
- Senior Sustainable Development Researcher & Analyst, Simandou - Forécariah Prefecture Strategic Plan, Faranah Sub-Prefecture Management Plan and Beyla Sub-Prefecture Management Plan, Guinea, for Rio Tinto, 2012
- Senior Sustainable Development Researcher & Analyst, Limpopo Province Strategic Plan for Resilient Sustainable Development, South Africa, for Anglo America, Anglo American Platinum, and DeBeers Group of Companies (three phases), 2015-2017
- Senior Sustainable Development Researcher & Analyst, Mozambique Systematic Country Diagnostic (SCD), for World Bank, 2015
- Senior Sustainable Development Researcher & Analyst, Tete-Mecuze Growth Corridor Strategic Plan Connecting Five Provinces, Mozambique, for Rio Tinto, 2012-2013

Selected Publications

Dobbin, J; Marquez, T; Rietbergen-McCracken, J., 2021. *Spatial Planning for Resilient Economic Diversification. La Guajira, Colombia*. World Bank publication (in press).

IUCN and WRI (2014). *A Guide to the Restoration Opportunities Assessment Methodology (ROAM)*:

Assessing forest landscape restoration opportunities at the national or sub-national level. Gland, Switzerland: IUCN. [co-author with Stewart Maginnis, Lars Laestadius, Michael Verdone, Sean DeWitt, Carole Saint-Laurent and Daniel Shaw]

Rietbergen-McCracken, JA (ed.), 2004-2014. *Arborvitae, IUCN Forest Conservation Programme Newsletter* (published quarterly).

Rietbergen-McCracken, JA, 2012. *Business involvement in IPBES*. Briefing Paper prepared for IUCN.

Rietbergen-McCracken, JA, 2012. *From principle to practice: CSO integration of environmental sustainability. Final report of the thematic consultation on environmental sustainability*. Prepared for WWF and the Open Forum for CSO Development Effectiveness.

Rietbergen-McCracken, JA, 2011. *Protecting the Green Heart of Africa*. WWF-Central Africa.

Rietbergen-McCracken, JA, 2009. *Participatory Governance toolkits (People-centred advocacy, civic education, participatory development planning, participatory policy-making)*. Civicus.

Rietbergen-McCracken, JA, 2008. *Poverty Reduction through Improved Natural Resource Management: Final technical report of the DGIS-funded programme*. WWF-International.

Taylor, R, Rietbergen-McCracken, JA and van Gelder, JW, 2008. *The Palm Oil Financing Handbook: Practical guidance on sustainable financing and investing in the palm oil sector*. WWF-International.

Rietbergen-McCracken, JA, 2008. *Building a sustainable future*. WWF-International.

Rietbergen-McCracken, JA with Aldrich, M, Kuiper, D, Nickson, A and Owen, S, 2007. *WWF and poverty alleviation: Final report of a cross thematic programme mapping and analysis of WWF project activities related to poverty alleviation and livelihoods*.

Rietbergen-McCracken, JA with Steindlegger, G and Chng, SK, 2007. *High Conservation Value Forests: The concept in theory and practice*. WWF-International.

Rietbergen-McCracken, JA, Maginnis, S and Sarre, A (eds.), 2007. *The Forest Landscape Restoration Handbook*. Earthscan, London.

- Rietbergen-McCracken, JA and Abaza, H (eds.), 2000. *Economic Instruments for Environmental Management: A Worldwide Compendium of Case Studies*. UNEP and Earthscan, London.
- Rietbergen-McCracken, JA and Abaza, H (eds.), 2000. *Environmental Valuation: A Worldwide Compendium of Case Studies*. UNEP and Earthscan, London.
- Rietbergen-McCracken, JA, Wood, S, and Simpson-Hébert, M, 1998. *Participatory Monitoring and Evaluation of Sanitation Projects*, in M Simpson-Hébert and S Wood (eds.), *Sanitation Promotion*. WHO, Geneva.
- Rietbergen-McCracken, JA and Narayan, D, 1997. *Participatory Tools and Techniques: A Resource Kit for Participation and Social Assessment*. World Bank, Washington, DC.
- Rietbergen-McCracken, JA (ed.), 1996. *Participation in Practice: The Experience of the World Bank and Other Stakeholders*, World Bank Discussion Paper 333. World Bank, Washington, DC.
- Adams, J and Rietbergen-McCracken, JA, 1994. *Participatory Development: Getting the Key Players Involved*. Finance and Development, vol 31 (3), pp 36-37.
- McCracken, JA, Kabutha, C and Ogana, W, 1992. *Training Programmes for Rural Women in Sustainable Use of Natural Resources. A Manual for Trainers*. Commonwealth Secretariat, London.
- McCracken, JA, 1991. *GATT and the Environment: Which Wins and Who is Interested?* In Proceedings of conference on "Freeing Markets of Feeding People?". EECOD, Brussels, and CIIR, London.
- McCracken, JA, 1991. *Women, Environment and Development*, in Report of the Expert Group on the Environmental Concerns of the Commonwealth. Commonwealth Secretariat, London.
- Conway, GR and McCracken, JA, 1990. *Rapid Rural Appraisal and Agroecosystem Analysis*, in MA Altieri and SB Hecht (eds.), *Agroecology and Small Farm Development*. CRC Press, Florida.

DR. GOUPING HUANG

SENIOR SPATIAL DEVELOPMENT PLANNER,
URBAN & ENVIRONMENTAL PLANNER,
GEODESIGN EXPERT

Dr. Guoping Huang is an internationally renowned landscape planning scholar and practitioner with nearly 20 years of experience. He is the Director of the Spatial Analysis Lab at the University of Richmond, Richmond, Virginia, USA. He has been a Senior Spatial Development Planner and Analyst with DI since 2009. His specialties include Geographic Information Systems, Data Analysis, Conservation Planning, Tourism Planning, and Scenario-based Planning.

Dr. Huang has published widely in English and Chinese and conducted urban and landscape-level planning projects in nearly 20 countries through DI for the World Bank, Rio Tinto (Mozambique and Guinea), The Aga Khan Development Network, Anglo American, Anglo American Platinum, DeBeers Group of Companies, Cerrejon Mine (Anglo American, BHP Billiton, Glencore), Government of Guinea, U.S. Department of Agriculture, and for independent research and planning for the International Community Foundation, U.S. Fish and Wildlife Service, National Park Service, and UNDP.

Dr. Huang is responsible for the development of the Geodesign framework for DI's recent projects (2011-present). His approach emphasizes the importance of geo-spatial data and geo-spatial technologies in bringing different sectors, disciplines, stakeholders together to develop multi-sector strategic spatial plans based on multi-scenario analyses. He theorized his practice in an article, "Geodesign in Developing Countries," published in 2016 in the *Journal of Landscape and Urban Planning*.

NATIONALITY & RESIDENCE

Chinese, US Permanent Resident

EDUCATION

- Doctor of Design, November 2005, Harvard Graduate School of Design, Cambridge, MA
- Master of Science in Landscape Design and Planning, June 2002, Peking University, Beijing, China
- Bachelor of Science in Urban Studies and Regional Planning, June 1999, Peking University, Beijing, China

PROFESSIONAL AFFILIATIONS

- International Member, American Society of Landscape Architects (ASLA)
- International Member, American Planning Association (APA)

Dr. Huang has also pioneered many analytical models for evidence-based planning decision-making. These include a smart road network that can respond to seasonal changes in road conditions to provide dynamic accessibility analysis in DI's Agro-Forestry Village Strategic Planning Project in Mozambique, a scenario-based agricultural suitability analysis that considers the possibility of climate change and in DI's Limpopo Strategic Development Planning project, and a novel poverty mapping approach based on asymmetric modeling that has changed World Bank's traditional poverty mapping based on statistical data in DI's Mozambique Systematic Country Diagnostic project.

Dr. Huang has won many national and international awards for his planning practice. His recent work focusing on climate resilience in Winneba, Ghana, won the People's Choice Award at the International Geodesign Consortium Summit in 2019. He received the Human Habitat Award from the Ministry of Construction of China in 2002, the Best GIS Application Award from the Digital Landscape Architecture Conference in 2011, the President's Award and the Community Service Award from the Virginia Chapter of American Society of Landscape Architects in 2014 and 2015, and the Scenic Vista Preservation Award from the Scenic Virginia in 2016.

Dr. Huang holds a Doctor of Design in landscape planning from Harvard University Graduate School of Design and Master of Science degree in Landscape Design and Planning, Bachelor of Science degree in Urban and Regional Planning from Peking University, China. Previously, he worked at the Harvard University Center for Geographic Analysis as a research fellow, Turenscape Design Institute, Beijing, as a landscape planner. He worked as senior spatial development planner and GeoDesign expert on numerous DI projects since 2009.

Positions

- Director, Spatial Analysis Lab, University of Richmond, 2020 – Present
- Graduate Program Director, Department of Urban and Environmental Planning, School of Architecture, University of Virginia, VA, 2017-2019
- Assistant Professor, Department of Urban and Environmental Planning, School of Architecture, University of Virginia, VA, 2011-2019
- Senior Landscape Planner and Spatial Analyst, Dobbin International Inc (DI), 2009 – Present
- Research Associate|GIS Analyst, Harvard University Center for Geographic Analysis, 2006 - 2011
- Instructor, Harvard Extension School, 2008 -2010

- Landscape Planner and Project Manager, Part-time, LANDD International Design LLC, 2005 – 2009
- Teaching Fellow|Research Fellow, Harvard Graduate School of Design, 2003 – 2005
- Landscape and Urban Planner, Part-time, Turenscape Design Institute, Beijing, China, 1999 – 2002

Awards and Fellowships

- Faculty Advisor to 2020 American Society of Landscape Architects Student Design Honor Award "Community Catalyst: Building a network of public spaces for sanitation and social inclusion in Winneba, Ghana", by Xinhui Chen
- Best Talk Award, Geodesign Summit, 2019
- People's Choice Award, International Geodesign Collaboration Conference, 2019
- Scenic Vistas Preservation Award, Scenic Virginia, 2016
- Community Service Award, American Society of Landscape Architects, Virginia Chapter, 2015
- President's Award, for "Richmond Riverfront Viewshed Study", American Society of Landscape Architects, Virginia Chapter, 2014
- Best GIS Application Award, International Digital Landscape Architecture Conference, 2011
- Excellence in Diversity Fellowship, University of Virginia, 2011
- Outstanding Landscape and Greenery Construction Award, Chinese Society of Landscape Architecture, 2011
- Pollman Postdoctoral Fellowship, Harvard Graduate School of Design, 2007-2009
- Presidential Information and Technology Fellowship, Harvard University, 2003-2005
- Human Habitat Award, Ministry of Construction, China, 2002
- Turenscape Design Scholarship, Peking University, China, 1999
- P&G Scholarship for Academic Excellence, Peking University, China, 1997

Relevant Dobbin International Experience

- Senior Spatial Development Planner, *South Africa - Northern Cape Economic Development initiative: Geospatial Analysis (Regional) on Diversification Opportunities (Part 3/3)*, in collaboration with CSIR and Zutari for Anglo American and The Impact Catalyst
- Senior Spatial Development Planner, *Colombia - Strategy for Sustainable and Resilient Development of La Guajira, Colombia*, for Cerrejón Mine (Anglo American, BHP Billiton, Glencore). Designing geospatial analytical modules to conduct spatial analysis on population distribution, agricultural suitability,

accessibility, climate change, energy potentials, and different development scenarios.

- Senior Spatial Development Planner, *Guinea - Strategy for Sustainable Development of Boke Prefecture*, for World Bank and Ministry of Mines and Geology, PAGSEM. 2019. Developing regional development strategies and sustainable urban development strategies. Designing geospatial analytical modules to conduct spatial analysis on in-migration, agricultural suitability, accessibility, conservation, and different development scenarios.
- Senior Spatial Development Planner, *Mexico - Sustainable Tourism Development Study for the Region of Holbox Island and Chiquilá*, for Stantec, 2018
- Senior Spatial Development Planner, *South Africa - Limpopo Province Strategic Plan for Resilient Sustainable Development* for Anglo America, Anglo American Platinum, and DeBeers Group of Companies (three phases), 2015–2017
- Senior Spatial Development Planner, *Mozambique - Mozambique Systematic Country Diagnostic (SCD)*, for World Bank, 2015
- Senior Spatial Development Planner, *Mozambique - Agro-Forestry Village Strategic Planning Project: Thirteen District and Five Provincial Strategic Plans* for U.S. Department of Agriculture and Technoserve, 2012–2013
- Senior Spatial Development Planner, *Mozambique - Tete-Mecuze Growth Corridor Strategic Plan Connecting Five Provinces*, for Rio Tinto, 2012–2013
- Senior Spatial Development Planner, *Mozambique: Cabo Delgado Province Strategic Plan*, for Anadarko Petroleum Corporation, 2012
- Senior Spatial Development Planner, *Guinea - Simandou - Southern Guinean Growth Corridor* for Rio Tinto, 2012
- Senior Spatial Development Planner, *Guinea - Simandou - Forécariah Prefecture Strategic Plan, Faranah Sub-Prefecture Management Plan and Beyla Sub-Prefecture Management Plan*, for Rio Tinto, 2012
- Senior Spatial Development Planner, *Tanzania and Mozambique - Spatial Development Planning Project – Perspectives on Regional Development – Southern Tanzania and Northern Mozambique*, for Aga Khan Development Network (AKDN), 2009–2010

Selected Publications

Huang, G., Takahashi, N. (2020). *Reuniting City and Landscape in Ghana*, School of Architecture, https://issuu.com/uvaschoolofarchitecture/docs/reuniting_20city_20and_20landscape_winneba_20ghana, University of Virginia

Huang, G. (2019) *Landscape Justice in Visual Landscape Protection*, Chinese Landscape Architecture, 2019, Vol. 35, Issue 5: 18-22, <http://dx.doi.org/10.19775/j.cla.2019.05.0018>

Huang, G. (2018). *Geodesign and Urban Renewal*. World Human Habitat, Vol. 2, Issue 1. <http://cpfd.cnki.com.cn/Article/CPFDTOTAL-JZJA201711005008.htm>

Huang, G. (2017). *Urban Spatial Growth in Mountainous Regions of Western China*. Mountain Research and Development, Vol. 37, Issue 3: 367-376, <https://doi.org/10.1659/MRD-JOURNAL-D-16-00078.1>

Huang, G. (2017). *Indexing the Human-Nature Relationship in Cities* Journal of Urban Planning, Landscape and Environmental Design, Vol. 2, Issue 2: 25-35. <http://dx.doi.org/10.6092/2531-9906/5255>

Huang, G. (2017). *Protecting Urban River Views with Geodesign Approach*. Journal of Digital Landscape Architecture, Vol. 2: 85-93, <http://dx.doi.org/10.14627/537629009>

Huang, G., Zhou, N. (2016). *Geodesign in Developing Countries: The example of the Master Plan for Wulingyuan National Scenic Area, China*. Landscape and Urban Planning, Vol. 156: 81-91, <https://doi.org/10.1016/j.landurbplan.2016.05.014>

Other Significant Experience

- Team Leader, Relinking the City of Winneba and Muni-Pomadze Lagoon Research Project, University of Virginia, Ghana, 2018-2019
- Regional Planner, Alternative Futures for the La Paz Region, Mexico, 2005
- Landscape and Urban Planner, Master Plan for the Wulingyuan National Park, Turenscape Design Institute, China, 2001-2003

LAURA M. HERNÁNDEZ

URBAN PLANNER, SPATIAL
PLANNER & ANALYST

Ms. Hernández is an urban planner, specialist in spatial analysis and econometrics, and master in geography. She has over 9 years of experience applying Geographic Information Systems (GIS) tools to support decision-making in urban and regional planning.

Her experiences include understanding territorial dynamics, constructing cartography, and applying spatial and statistical analysis tools to calculate spatial indicators that support the interpretation and analysis of complex territorial processes.

Ms. Hernández has worked with public and private entities, supporting the study of urban and regional dynamics, as well as the formulation of policies, plans, and programs for territorial development. Regarding the public sector, in the national level, she joined the National Planning Department and the Ministry of Housing, City and Territory, as a spatial analyst for the National City System Policy. At the local level, she has worked with different municipal entities, such as Bogotá Capital District and Santa Marta City, on sectors related to planning, habitat, and urban renewal and development.

For over four years, Ms. Hernandez has served as a university professor in Geographic Information Systems - GIS and geospatial data analysis.

For the DI team, Ms. Hernández participated as a Spatial Development Planner, for La Guajira Regional Development Plan for the Cerrejón Mine Project, and as a Senior Strategic Spatial Development Planner in Northern Cape Province in South Africa - geospatial analysis on diversification opportunities identified during provincial-level spatial analysis for economic diversification and development.

NATIONALITY

Colombian

EDUCATION

- Specialist on Econometrics, Externado University, Faculty of Economics
- Masters in Geography, National University of Colombia, Department of Human Sciences
- Specialist on Spatial Analysis, National University of Colombia, Department of Humans Sciences
- Bachelor of Urban Development and Management, Rosario University

Positions

- Spatial Planner and Analyst, Dobbin International Inc, 2019 – present
- Spatial Analyst In Bogotá's Home Solidary City System, designed to attend health emergency declared due to Covid-19, Bogotá Planning Secretariat, Colombia, 2020 - present
- Advisor on Bogotá Hábitat Secretariat, Colombia, 2020 - present
- Advisor on Ministry of Housing, City and Territory, Colombia, 2020 - 2020.
- Advisor on Urban Development, National Planning Department, Colombia, 2018-2020
- Urban Planner and Spatial Analyst, Bogotá Planning Secretariat, Colombia, 2017 - 2018
- Spatial Analyst, Santa Marta City Master Plan, Santa Marta Planning Secretariat, Mayor's Office of Santa Marta, 2016 - 2018
- Urban Planner and Spatial Analyst, Urban and Development Company of Bogotá DC, Urban Management Directorate, 2014-2018

Relevant Dobbin International Experience

- Spatial Development Planner, South Africa - Northern Cape Economic Development Initiative: Geospatial Analysis (Regional) on Diversification Opportunities (Part 3/3), in collaboration with CSIR and Zutari for Anglo American and The Impact Catalyst
- Research Assistant, Participatory Regional Development Strategy for La Guajira Department, Columbia, for Cerrejón Mine (Anglo American, BHP Billiton, Glencore), 2019 – present

Other Significant Experience

- Urban Planner and Spatial Analyst, Bogotá Planning Secretariat, Spatial Data Analysis the Diagnosis and Formulation of Integrated Urban Projects Including Eldorado Airport Master Plan, Tunjuelo River and Fucha River Master Plans, Master Plan Santa Marta
- Researcher for the analysis of spatial data of the project "Measurement intertemporal analysis of socioeconomic segregation in Bogotá: challenges for policy public". National University of Colombia. 2020 - present

Selected Publications

Laura M. Hernández et al, Eldorado Airport: Challenges and Opportunities from an Urban and Regional Perspective. District Planning Secretariat, Bogotá, Colombia, 2018

Laura M. Hernández et al, Measurement of Coverage and Accessibility of Public Space in Bogotá, Medellín and Cali. Journal of Housing and Urbanism. Vol 22. No 22. Bogotá, Colombia, 2018

Laura M. Hernández et al, Quality of Life and its Correlation with Land Prices: An Approach to Residential Segregation in Bogota. Journal of Housing and Urbanism. Vol 19. Bogotá, Colombia, 2017

Laura M. Hernández, Social Housing - A Strategy to Reduce Socio-Spatial Segregation in Bogota. Geography Master Thesis. National University of Colombia. Bogotá, Colombia, 2017