

DAO Quoc-Hy

Born 16 October 1964 in Baden (Switzerland)
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Areas of interest

theories > **geographical information** | **graphical semiology**

themes > **risk assessment** | **population mapping** | **sustainable territorial development**

tools > **indicators** | **webmapping** | **spatial data infrastructures** | **e-learning**

Current positions

Since 2013 **Professor at the department of geography of the University of Geneva (50%)**

Coordination of geographic information <http://www.unige.ch/sig/>
Responsible of the InfoGéo laboratory <http://infogeo.unige.ch/>

Since 1994 **Geographer at the United Nations Environment Programme / Global Resource Information Database, under secundment by the University of Geneva (50%)**

Head of the « Metadata and Socio-economics Unit » and member of the « Management committee » at UNEP/GRID <http://www.grid.unep.ch/>

Diplomas

- 1999 **Ph.D. (doctorat) in geography**, Faculty of Social and Economic Sciences of the University of Geneva. Thesis entitled : « GIS, remote sensing and knowledge of the environment. The case of deforestation in Ivory Coast » (a research with the Conservatory and Botanical Garden of Geneva).
- 1989 **Postgraduate diploma in remote sensing**, International Institute for Aerospace Surveys and Earth Sciences (ITC), dept. of « Rural and land ecology survey », Enschede, Netherlands.
- 1987 **Master (licence) in geography**, Fac. of Social and Economic Sciences of the Univ. of Geneva. Subject : « Control and use of space : the accessibility to the shores of Lake Geneva with the example of Versoix (Geneva) ».

Official functions

Representative of the University of Geneva in the Commission of Providers and Users of the Geneva Land Information System <http://etat.geneve.ch/sitg/cfu-3586.html>.

Delegate of the Rectorate of the University of Geneva for the relations with the United Nations Development Programme <http://www.unige.ch/rectorat/Delegates.html>

Member of the Swiss Commission on Remote Sensing <http://www.geo.unizh.ch/skf/>.

Current research projects

INTERCO (2010-2012, 400'000 EUR, main applicant) : indicators of territorial cohesion for the European Observation Network for Territorial Development and Cohesion (ESPON)
http://www.espon.eu/main/Menu_Projects/Menu_ScientificPlatform/interco.html.

Governance of Forests Multiple Outcomes in the Bolivian Lowlands - Reconciling livelihoods, biodiversity conservation and carbon sequestration (2010-2012, 283'200 CHF, co-applicant). An analysis of the institutional arrangements of the Bolivian forest stakeholders and their influence on land use and forestry practices (Swiss Network for International Studies) http://www.snis.ch/call-proposals-2010_237_rist, <http://www.livesur.com/>.

A multi-scale approach to land governance in complex cultural, environmental and institutional contexts. Development of a comparative GIS methodology linking land use, land cover and land tenure from the cases of Bolivia and the Lao PDR (2012-2013, Associated Member). The overall aim of this project is provide a methodological and conceptual contribution to the theory of natural resources governance by assessing the spatial expression of land governance at multiple scales (Swiss Network for International Studies) http://www.snis.ch/call-projects-2011_940_multi-scale-approach-land-governance-complex-cultural-environmental-and-insti.

FP7 enviroGRIDS (2009-2013, responsible of Work Package 3.1 "Demographic scenarios) : « Building Capacity for a Black Sea Catchment Observation and Assessment System supporting Sustainable Development » (Seventh Framework Programme) <http://www.envirogrids.net>.

Sustainable Soil Governance and Large Scale Land Acquisitions originating in Switzerland (2013-2016, 300'450 CHF, member of the Advisory Group) <http://www.nfp68.ch/F/projets/land-grabbing/>.

Current mandates (at UNEP/GRID)

Megatrends (2013, 49'560 CHF) : Indicators of global environmental trends (FOEN).

Switzerland's state of the environment in a global context: Comparison of indicators (2012, 44'000 CHF, project leader) : compararison of Swiss and international indicators for the Federal Office for the Environment (FOEN).

Global Assessment Report - GAR (project member) : global risk indicators for the Global Assesment Report 2013 (ISDR) <http://www.preventionweb.net/english/hyogo/gar/>.

ESPON Database 2013 (2010-2013, 30'000 EUR, project leader) : expertise on population databases for spatial planning at the European level (European Commission), <http://www.espon.eu/>.

envirocat (2011-2013, 70'000 CHF, project leader) : Swiss catalogue of environmental data sources (Federal Office for the Environment, FOEN) <http://www.envirocat.ch/>.

Recently completed research projects

Geo-indicators-CH (2010, 44'800, project leader) : spatialized environmental indicators for the Federal Office for the Environment (FOEN).

TREIC (2006,2009, co-applicant) : « Tracking environmental impacts of consumption: Linking OECD and developing countries for risk analysis and related pressure's alleviation (Geneva International Academic Network) <http://www.ruig-gian.org/research/projects/project43a0.html?ID=131>.

CAPIKS - COST C20 (2007-2009, co-applicant) : concerted action for planning by information and knowledge sharing in Switzerland (State Secretariat for Education and Research), <http://infogeo.unige.ch/capiks/>.

Swiss representative in the C20 COST Action « Urban Knowledge » : developing a European arena for crossboundary co-operation in production of knowledge and know-how on complex urban problems (European Science Foundation/COST)
http://www.cost.eu/domains_actions/tud/Actions/C20.

« The words of sustainability – how to improve sustainability with relevant and negotiated geographical objects » (2006-2009, project member) : A critical analysis and methodological developments for the definition of new geographical categories relevant for sustainable development policies in Switzerland (National Research Programme « Sustainable Development of the Built Environment » NRP 54 <http://www.pnr54.ch/>) <http://infogeo.unige.ch/objectsofsustainability/>.

Publications

Edited book

Walser O., Thévoz L., Joerin F., Schuler M., Joost S., Debarbieux B. et Dao H. (2011), L'échelle d'analyse en question, *Les systèmes d'information géographique au service du développement territorial*, PPUR, Lausanne, <http://www.ppur.org/livres/978-2-88074-919-4.html>.

Book chapters

Dao H. (2011), L'échelle d'analyse en question. In Schuler M. et al. (eds), *Les systèmes d'information géographique au service du développement territorial*, PPUR, Lausanne, <http://www.ppur.org/livres/978-2-88074-919-4.html>.

Dao H., Woerden J. (2009), Population Data for Climate Change Analysis. In Guzmán J.M., Martine G., McGranahan G., Schensul D. and Tacoli C. (eds), *Population Dynamics and Climate Change*, UNFPA, IIED, 250pp, http://www.unfpa.org/webdav/site/global/shared/documents/publications/2009/pop_dynamics_climate_change.pdf.

Dao H. (2005). Le rôle des SIG dans la connaissance et la gestion du territoire. In: Da Cunha A., Knoepfel P., Leresche J.-P., Narath S. (dir.), *Enjeux du développement urbain durable*, Presses Polytechniques Universitaires Romandes, Lausanne, pp. 123-156.

Chatelain C., Dao H., Gautier L., Spichiger R. (2003), Forest cover changes in Côte d'Ivoire and Upper Guinea. In: Bongers F., Loorens P., Kouamé F. N., Hawthorne W. D. (eds.), *Biodiversity of West African Forests. An Ecological Atlas of Woody Plant Species*, CABI Publishing, Wallingford (UK).

Articles

Bottazzi P., Crespo D., Soria H., Dao H., Serrudo M., Benavides J., Swarzer S., Rist S. (accepted), Carbon Sequestration in Community Forests: Trade-offs, Multiple Outcomes, and Institutional Diversity in the Bolivian Amazon, *Development and Change*.

Bottazzi P., Dao H. (2013), On the road through the Bolivian Amazon: A multi-level land governance analysis of deforestation, *Land Use Policy*, vol. 30/1, pp. 137-146, <http://dx.doi.org/10.1016/j.landusepol.2012.03.010>.

Peduzzi P., Chatenoux B., Dao H., De Bono A., Herold C., Kossin J., Mouton F., Nordbeck O. (2012), Global trends in tropical cyclone risk, *Nature Climate Change*, <http://www.nature.com/nclimate/journal/vaop/ncurrent/full/nclimate1410.html>.

Løvholt F., Glimsdal S., Harbitz C.B., Zamora N., Nadim F., Peduzzi P., Dao H., Smebye H. (2011), Tsunami hazard and exposure on the global scale, *Earth Science Reviews*, in press, <http://www.sciencedirect.com/science/article/pii/S0012825211001619>.

Giuliani, G., Ray, N., Schwarzer, S., De Bono, A., Peduzzi, P., Dao, H., Van Woerden, J., Witt, R., Beniston, M. and Lehmann, A. (2011), Sharing Environmental Data through GEOSS, *International Journal of Applied Geospatial Research*, vol. 2/1, pp. 1-17, <http://www.igi-global.com/article/sharing-environmental-data-through-geoss/50475>.

Peduzzi P., Dao H., Herold C., Mouton F. (2009), Assessing global exposure and vulnerability towards natural hazards: the Disaster Risk Index, *Nat. Hazards Earth Syst. Sci.*, vol. 9/4, pp. 1149-1159, <http://www.nat-hazards-earth-syst-sci.net/9/1149/2009/nhess-9-1149-2009.html>.

Peduzzi P., Dao H. (2005), Mapping Disastrous Natural Hazards using Global Datasets, *Natural Hazards*, vol. 35, pp. 265-289, <http://link.springer.com/article/10.1007/s11069-004-5703-8>.

Reports

Dao H., Plagnat P., Rousseaux V., Angelidis M., Batzikou S., Bazoula V., Böhme K., Brockett S., Gløersen E., Schürmann C., Sterling J., Tsigkas E., Van Well L. (2012), INTERCO - Indicators of territorial cohesion, ESPON Scientific Platform and Tools Project 2013/3/2, Final Report, ESPON & University of Geneva, 3 vols + annexes, 546 pp, <http://archive-ouverte.unige.ch/unige:24389>.

Lawrence R. J., Horber-Papazian K., Dao H. et al. (2009). Informer, consulter, concerter, codécider pour aménager. Dispositifs de partage des informations et des connaissances pour les processus d'aménagement concerté (DPICPAC). Rapport final COST C20, Université de Genève, Institut des hautes études en administration publique (IDHEAP), 343 pp., <http://archive-ouverte.unige.ch/unige:23257>.

Molineaux, B., Friot, D., Dao, Quoc-Hy, Spadazzi, R., Cornaglia, L., et Dubrova- Froidevaux, I. (2009), L'empreinte écologique de Lancy, commune de 30'000 habitants (canton de Genève, Suisse), Genève, terragir, maneco, 26 pp. <http://archive-ouverte.unige.ch/unige:24388>.