

CURRICULUM VITAE

1. PERSONAL DETAILS

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2. ACADEMIC QUALIFICATION

Formal education:

<i>Period</i>	<i>Academic degree</i>	<i>Field</i>	<i>Educational organization</i>
October 2001 – September 2005 (full time) ^a	Ph.D.	Geo-sciences (major) Ecology and Natural Resource Management (minor)	Faculty of Mathematics & Natural Sciences in affiliation to Center for Development Research (ZEF), both at University of Bonn (Bonn, Germany)
June 1996 – May 1998 (full time) ^b	M.Sc.	Environmental Sciences (major) Environmental Risk Assessment (minor)	Faculty of Sciences at Chiang Mai University (Chiang Mai, Thailand) in collaboration with Bio-geographical Institute at Saarland University (Saarbrücken, Germany)
September 1988 – March 1993 (full time) ^c	Forestry Engineer	Forest Biological Sciences and Management	Faculty of Forestry, Hue University of Agriculture and Forestry (Hue, Vietnam)
September 1985 – June 1987 (full time) ^d	Senior High School Leaving Certificate	General Education at Senior High School level	Nguyen Hue Senior High School (Hue, Vietnam)
September 1975 – June 1984 ^e		General Education at Primary and Secondary School levels	Tran Quoc Toan Primary and Secondary School (Hue, Vietnam)

^a Dissertation title: *"Multi-Agent System for Simulating Land-use and Land-cover Change: A Theoretical Framework and Its First Implementation for an Upland Watershed in the Central Coast of Vietnam"*. Principal supervisor: Prof. Dr. Paul L.G. Vlek. Graduation grade: *magna cum laude* (1.0)

^b The standard program lasted 2 years full time, consisting of course work, field research and master thesis. Cumulative GPA of course work: 3.6/4.0. Field and laboratory work had been done for 7 months (June – December 1997). Thesis title: *"Plants as potential indicators for soil contamination by heavy metals in Kup Kap valley, Mae Taeng district, Chiang Mai province, Thailand"*. Thesis supervisors: James F. Maxwell, Dr. Stephen D. Elliott, and Assoc. Prof. Dr. Vilaiwan Anusarnsunthorn.

^c The standard program lasted 4.5 years full time, consisting of course work, field practicum (6 months) and research thesis. Cumulative GPA of course work: 8.12/10.00 (General University Education) and 7.95/10.00 (Forest Biological Sciences and Management). Practicum was done at Center for Forestry Research and Production of Northern Central Vietnam (Vietnam Forest Science Institute). Thesis title: *"Testing Acacia species and provenances for reforestation of bare lands and denuded hills in Dong Ha, Quang Tri province"* (in Vietnamese). Thesis supervisors: Mr. Nguyen Thanh Thu.

^d Distinguished graduation. Mathematics: 9/10, Chemistry: 10/10, Literature: 8/10, English: 9/10, Overall graduation grade: 36/40

^e Admitted to senior high school without entry exams because of distinguished results of secondary school study.

Other Intensive Courses (with evaluation exams):

<i>Time</i>	<i>Topics</i>	<i>Educational institute</i>
February – March 2002 (15 ECTS credit points)	Ecology, Land Use and Development	Center for Development Research (ZEF), University of Bonn (Bonn, Germany)
October – November 2001 (15 ECTS credit points)	Concepts and Theories of Development	Center for Development Research (ZEF), University of Bonn (Bonn, Germany)
September – October 2000 (40 days, full time)	Risk Management in Community Development Planning	SSPA Sweden AB and Sida (Göteborg, Sweden)
December 1992 – May 1993 (216 class units, 1 unit = 45 minutes)	Computer Programming	Center for Informatics, Thua-Thien Hue Department of Education and Training (Hue, Vietnam)

Other short courses:

Digital Image Processing (April 2002 at ZFL, Bonn, Germany)

Natural Resources Management and Land-use Planning (March 2002 at ITC, Enschede, Holland)

Mathematical Modeling and Statistics (September 2001 at ZEF, Bonn, Germany)

Geographical Information System (GIS) (November 2001 at ZEF, Bonn, Germany)

Remote Sensing for Vegetation Studies (December 2001 at ZFL, Bonn, Germany)

Multimedia and CD-Rom Production and Web Design (May 2001 at An Giang University, Long Xuyen, Vietnam)

Agroforestry Systems for Sustainable Land Uses in Southeast Asia (May 1999 at ICRAF Thailand, Chiang Mai, Thailand)

3. EMPLOYMENT RECORDS

<i>Time</i>	<i>Occupation or position held</i>	<i>Name and Address of Employer</i>	<i>Main activities and responsibilities</i>
May 2005 - now	Senior Researcher	Center for Development Research (ZEF) University of Bonn Walter – Flex – Str.3 D-53113 Bonn Germany Internet: http://www.zef.de/	<ul style="list-style-type: none">• Creation and development of LUDAS (Land Use Dynamics Simulator), a multi-agent system for simulation of land-use/cover change, applied in Vietnam and West Africa (Ghana and Burkina Faso)• Scientific advisor (doctoral tutor) of Ph.D. students at ZEF, University of Bonn and United Nation University (UNU) who currently work on multi-agent based modeling of land-use/cover change, vulnerability assessment, and residential segregation in urban areas. Current advised Ph.D. students: Julia Schindler, Katrin Zitzmann, Marcus Kaplan (Germany), and Flavia da Fonseca Feitosa (Brazil).• Provision of lectures on Geo-statistics, Land-use Modeling and Simulation as a part of the International Doctoral Program for Development Studies• Provision of tutorials on GIS, spatial analyses, applied (geo)statistics, and agent-based modeling in ecological and environmental studies in according to individual needs of Ph.D. students at ZEF (University of Bonn) and United Nations University (UNU).
April 2001 – August 2001	Lecturer and Scientific Coordinator (full time)	Faculty of Forestry Hue University of Agricultural & Forestry, Hue Vietnam	<ul style="list-style-type: none">• Provision of lectures on Forest Tree Improvement, Conservation of Forest Genetic Resources, Environmental Impact Assessment• Scientific Coordinator of the Faculty of Forestry
May 1998 – March 2001	Lecturer (full time) Core Researcher of International Projects (part time)	Faculty of Forestry Hue University of Agricultural & Forestry, Hue Vietnam	<ul style="list-style-type: none">• Provision of lectures on Genetics, Forest Tree Improvement, Conservation of Forest Genetic Resources• Thesis supervision for undergraduate students• Conduction and coordination of research activities of internationally funded projects on Upland Resource Management and Social Forestry
04/1993 – 04/1996	Junior Lecturer (full time)	Faculty of Forestry Hue University of Agricultural & Forestry, Hue, Vietnam	<ul style="list-style-type: none">• Provision of lectures on Forest Tree Improvement, Conservation of Forest Genetic Resources

Experiences in Research & Development Projects

<i>Time of participation</i>	<i>Project</i>	<i>Position held and responsibility</i>
May 2005 - now	<p>GLOWA-Volta: Sustainable Water Use under Changing Land Use, Rainfall Reliability, and Water Demands in the Volta Basin (2001 – 2009).</p> <p>This is an international research project funded by BMBF, Germany.</p> <p>Project details can be found in its web-page: http://www.glowa-volta.de.</p>	<ul style="list-style-type: none"> • Coordination of a research group on multi-agent based modeling of land use change (team leader of sub-project E3) • Inventor and developer of LUDAS (Land Use Dynamics Simulator) - a high resolution agent-based simulation framework • Development of cellular automata model of land cover changes (sub-project E2) • Development of Decision Support System packages in land/water resources management at the small catchment/community level. • Capacity building for local staffs and technology transfer
August 1998 – August 2003	<p>Community-Based Management of Upland Natural Resources in Central Vietnam (1994 – 2003).</p> <p>This was a development research programme conducted by Hue University of Agriculture and Forestry and Centro Internacional de Agricultura Tropical (CIAT), co-funded by International Development & Research Centre (IDRC, Canada) and Ford Foundation.</p>	<ul style="list-style-type: none"> • Team leader of Land Use and Forest Management group • Key project team members (planning, coordination, regular monitoring and evaluation) • Capacity building for local staffs
October 1998 – August 2001	<p>Social Forestry Support Program – Vietnam (SFSP) (1998 – 2002)</p> <p>This was a national program for building capacity in Social Forestry teaching and research in Vietnam's universities, supported by Swiss Development Cooperation Agency (SDC) and Vietnam Ministry of Agriculture and Rural Development (MARD)</p>	<ul style="list-style-type: none"> • Team leader in Social Forestry Research • Key project team members (planning, coordination, regular monitoring and evaluation) • Curriculum development of social forestry-related subjects (Agro-forestry, Project Management, Social Forestry)
March 1999 – August 2001	<p>Southeast Asian Network of Agro-forestry Education (SEANNAFE)</p> <p>This is a regional network for promoting agro-forestry education and research in Southeast Asia's universities, supported by Swedish International Development Cooperation Agency (Sida) and International Center for Research Agro-forestry (ICRAF).</p>	<ul style="list-style-type: none"> • Curriculum development • Exchanges teaching/learning materials and experiences with lecturers/researchers on Agro-forestry in Southeast Asia universities

4. PUBLICATIONS

Reviewed Research Articles, Book Series, Book Chapters

- Le, Q.B., Tamene, L.D., Vlek, L.G. (in preparation). Assessing the spatio-temporal dynamics of land degradation in Sub-Saharan Africa using time-series AVHRR NDVI data and CRU dataset.
- Segai, D., Le, Q.B. (in preparation). Inter-district migration flows in Ghana: analysis of socio-economic and environmental factors.
- Le, Q.B., Park, S.J., Vlek, P.L.G. (in preparation) Land use dynamic simulator (LUDAS): a multi-agent system model for simulating spatio-temporal dynamics of coupled human-landscape system. 2. Scenario-based applications.
- Le, Q.B., Park, S. J., and Vlek, P.L.G. (in preparation) An empirical approach to model crop yield dynamics within a spatial multi-agent system for a mountainous region of Central Vietnam.
- Le, Q.B., Schindler, J., Gleisberg, K., Laube, W., Tamene, L., Vlek, P.L.G (in preparation). A multi-agent based decision support tool for the management of land resources in Volta basin.
- Vlek, L.G., Le, Q.B., Tamene, L. (submitted). African land degradation in a world of atmospheric change.
- Le, Q.B., Park, S.J., Vlek, P.L.G. (submitted) Household typologies and socio-ecological determinants of their land-use choices in Vietnam forest margins: implications for empirical multi-agent modeling.
- Le, Q.B., Park, S.J., and Vlek, P.L.G. (2008) Land use dynamic simulator (LUDAS): a multi-agent system model for simulating spatio-temporal dynamics of coupled human-landscape system. 1. Structure and theoretical specification. *Ecological Informatics* 3(2): 135 – 153.
- Vlek, P.L.G., Le, Q.B., Tamene, L. (2008). *Land decline in Land-Rich Africa: a creeping disaster in the making*. CGIAR Science Council Secretariat, Rome, Italy, 62 pp.
- Le, Q.B. (2005) Multi-agent system for simulation of land-use and land-cover change: a theoretical framework and its first implementation for an upland watershed in the Central Coast of Vietnam. *Ecology and Development Series* 29, 296 pp.
- Bhuiyan, S.H., Le, Q.B. (2002) Decentralizations and Natural Resource Management: A Colombian Case. *Journal of Politics Administration and Changes* 37: 43 - 67.
- Beckman, M., Le, V.A., Le, Q.B. (2002) Living with the floods: coping and adaptation strategies of households and local institutions in Central Vietnam. *SEI/WRI Report Series* 5, Stockholm Environment Institute, 65 pp.
- Le, Q.B. (2002). Forest management in Hong Ha commune and practical lessons learned. In: Le, Van An (ed.). *Community-Based Natural Resource Management on the Uplands*. The Agricultural Publish House, Hanoi, Vietnam, pp. 99 - 120 [in Vietnamese].
- Le, Q.B., Maxwell, J.F., Elliott, S.D. (2000). Changes in forest plant species composition and bio-indicators for ecological impacts of soil contamination by heavy metals. In: *Research Results in Agricultural and Forest Sciences for the Period 1995 – 1999 in Hue University of Agriculture and Forestry*. The Agricultural Publish House, Hanoi, Vietnam, pp. 415 – 422 [in Vietnamese].

Papers in Conference Proceedings

- Zitzmann, K. and Le, Q.B. (2008). Integrated assessment of the impact of a small reservoir on land use and livelihoods in Burkina Faso. Paper accepted for oral presentation at the 13th IWRA World Water Congress: Global Changes and Water Resources, September 1 – 4 2008, Montpellier, France.
- Landmann, T., Machwitz, M., Le, Q.B., Tamene, L.D., Vlek, P.L.G., Dech, S., Schmidt, M. (2008). A land cover change synthesis study for the GLOWA Volta Basin in West Africa using time trajectory satellite observations and cellular automation models. Paper accepted for oral presentation in the 2008 IEEE Geoscience and Remote Sensing Symposium, July 6-11 2008, Boston, MA, USA.
- Kaplan, M., Le, Q.B., Renaud, F. (2007). Land-use change, mangrove destruction, and vulnerability in Maduganga lagoon, Sri Lanka: Empirical analyses towards agent-based modelling. In: Deutsche Tropentag 2007 "Utilisation of Diversity in Land Use Systems: Sustainable and Organic Approaches to Meet Human Needs". October 9 -11,

2007, University of Kassel-Witzenhausen, Germany, 5 pp. Available On-line <<http://www.tropentag.de/2007/abstracts/full/441.pdf>>

Published Abstracts and Summaries

- Le, Q.B., Park, S.J., Vlek, P.L.G. (2007). A multi-agent system model for simulating spatio-temporal dynamics of coupled human-landscape system in forest margins: conceptual framework and theoretical application. In: Addink, E., Barendregt, A., Karssenber, D., and de Nijs, T. (Eds.) *Framing Land Use Dynamics II*. Proceedings of International Conference, April 18 – 20, Utrecht University, The Netherlands, p. 114.
- Le, Q.B., Tamene, L.D., Landman, T., Rodgers, C., and Vlek, P.L.G. (2007). A cellular automata approach to simulating land-use/land-cover changes in the White Volta basin In: Addink, E., Barendregt, A., Karssenber, D., and de Nijs, T. (Eds.) *Framing Land Use Dynamics II*. Proceedings of International Conference, April 18 – 20, Utrecht University, The Netherlands, p. 113.
- Le, Q.B., Vlek, P.L.G. (2006) Integrated land-use modelling to support land management decisions for the Central Coast of Vietnam. ZEF News No. 18: 4.
- Le, Q.B., Vlek, P.L.G., Park, S.J. (2005) A multi-agent simulation model of land-use and land-cover change for an upland watershed in the Central Coast of Vietnam. In: Stietenroth, D., Lorenz, W., Tarigan, S., and Malik, A. (eds.). *The Stability of Tropical Rainforest Margins: Linking Ecological, Economic and Social Constraints of Land Use and Conservation*. Proceedings of International Symposium September 19-23, 2005, Georg-August-University of Goettingen, Germany, pp. 63-64.
- Le, Q. B., Park, S.J., and Vlek, P.L.G. (2005) An agent-based simulation model for land-use and cover change in Central Vietnam. In: Kok, K. (ed.). *Integrated Assessment of the Land System: The Future of Land Use*. The Proceedings of International Workshop. October 28-30, 2004, Institute for Environmental Studies, Amsterdam, the Netherlands, pp. 52-53.
- Le, Q. B., Park, S.J., Vlek, P.L.G. (2005) A Spatio-temporally explicit multi-agent simulation model for land-use and land cover change in Central Vietnam. In: Frede, H-G., and Bach, (Eds.): *Multifunctionality of Landscapes: Analysis, Evaluation, and Decision Support*. Proceedings of International Conference, May 18-19, Justus – Liebig – University, Giessen, Germany, p. 146.
- Le, Q. B., Park, S.J., Vlek, P.L.G. (2004) Simulating spatial patterns of land-use and land-cover change: a multi-agent model and its application to an upland watershed in Central Vietnam. In: Deutscher Tropentag 2004. *International Research on Food Security, Natural Resource Management and Rural Development*. Book of Abstracts, p. 155.

Dissertation and Theses

- Le, Q.B. (2005) *Multi-agent System for Simulation of Land-use and Land-cover Change: A Theoretical Framework and Its First Implementation for an Upland Watershed in the Central Coast of Vietnam*. Doctoral Dissertation submitted to the Faculty of Mathematics and Natural Sciences, University of Bonn, 290 pp.
- Le, Q.B. (1998). *Plants as Potential Indicators for Soil Contamination by Heavy Metals in Kup Kap Valley, Mae Taeng District, Chiang Mai Province, Thailand*. M.Sc. thesis submitted to the Faculty of Science, Chiang Mai University, 122 pp.
- Le, Q.B. (1993). *Testing Acacia Species and Provenances for Reforestation of Bare Lands and Denuded Hills in Dong Ha, Quang Tri Province*. B.Sc. thesis submitted to the Faculty of Forestry, Hue University of Agriculture and Forestry [in Vietnamese].

Working Papers

- Le, Q.B. (2001) Forest Management in Hong Ha Commune and Practical Lessons Learned. In: Le, Van An (ed.). *Community-Based Natural Resource Management on Uplands in Hong Ha Commune, A Luoi District, Vietnam*. Final Report for the Project Phase I (1998-2000), submitted to International Development and Research Centre (IDRC-Canada). CBNRM Hue Upland Project, Hue, Vietnam.

- Le, Q.B. (2000) Environmental Risks in Community Development in a Mountainous Commune and Some Implications for Risk Management. Paper presented at the Advanced International Training Programme on *Risk Management in Community Development Planning*, Gothenburg, Sweden, September 2000.
- Le, Q.B. (2000) Land and Tree Tenure System in Hong Ha Commune, Thua Thien - Hue Province, Central Vietnam. In: Le, Van An (ed.). *Community-Based Natural Resource Management on Uplands in Hong Ha Commune, A-Luoi District, Vietnam*. Second Interim Report of Project Phase I (1998-2000), submitted to International Development and Research Centre (IDRC-Canada). CBNRM Hue Upland Project, Hue, Vietnam.
- Le, Q.B. (1999) Forest Management in Hong Ha Commune: Existing Situation, Dynamics and Paths Towards to Sustainability. In Le, Van An (ed.): *Community-Based Natural Resource Management on Uplands*. First Interim Report of Project Phase I (1998-2000), submitted to International Development and Research Centre (IDRC-Canada). CBNRM Hue Upland Project, Hue, Vietnam.

Oral Presentations in International Conferences

- Le, Q.B., Park, S.J., Vlek, P.L.G. (2007). A multi-agent system model for simulating spatio-temporal dynamics of coupled human-landscape system in forest margins: conceptual framework and theoretical application. Oral presentation at International Conference "*Framing Land Use Dynamics II*", April 18 – 20, 2007 Utrecht University, The Netherlands.
- Le, Q.B., Zitzmann, K., Schindler, J., Laube, W., Tamene, L., Vlek, P.L.G. (2007). Development and Application of Land-use Dynamics Simulator (LUDAS) to Small Catchments in Volta Basin. Oral presentation at GLOWA-Volta Strategy and Planning Meeting, January 22-23, 2007, Center for Development Research (ZEF), University of Bonn, Germany.
- Le, Q.B., Tamene, L. (2006). A multi-agent based approach to support land/water management planning in small catchments in the Volta Basin. Oral presentation at the International Conference "*Integrated River Basin Management in Contrasting Climate Zones*", December 14-15, 2006, University of Hohenheim, Germany.
- Le, Q.B. (2006). A Multi-Agent Simulation of Land-use/cover Change: A case study in Vietnam and its adaptation to micro-catchments in Volta River basin. Oral presentation at ZEF's International Advisory Board Meeting, October 10 2006, Bonn, Germany.
- Le, Q.B., Vlek, P.L.G, Park, S.J. (2005) A multi-agent simulation model of land-use and land-cover change for an upland watershed in the Central Coast of Vietnam. Oral presentation at the International Symposium "*The Stability of Tropical Rainforest Margins: Linking Ecological, Economic and Social Constraints of Land Use and Conservation*", September 19-23, 2005, University of Goettingen, Germany.

Poster Presentations in International Conferences

- Le, Q.B., Park, S.J., Vlek, P.L.G. (2006) Integrated coupled human-landscape modeling: a spatial multi-agent simulation model of land-use/cover change for an upland watershed in the Central Coast of Vietnam. Poster presented at the Global Change Open Science Conference, Beijing, China, November 9 - 12 2006 - Organized by Earth System Science Partnership (ESSP).
- Le, Q.B., Park, S.J., Vlek, P.L.G. (2004) Simulating spatial patterns of land-use and land-cover change: a multi-agent model and its application to an upland watershed in Central Vietnam. Poster presented at International Workshop "*Integrated Assessment of the Land System: The Future of Land Use*", October 28-30, 2004, Institute for Environmental Studies, Amsterdam, The Netherlands.
- Le, Q.B., Park, S.J., Vlek, P.L.G. (2004) Simulating spatial patterns of land-use and land-cover change: a multi-agent model and its application to an upland watershed in Central Vietnam. Poster presentation at Deutscher Tropentag 2004 "*International Research on Food Security, Natural Resource Management and Rural Development*", October 5 - 7 2004, Humboldt University, Berlin, Germany.

5. RELEVANT SKILLS:

Model design and specification:

- Multi-agent simulation models for coupled human-environmental systems.
- System dynamics and cellular automata models for vegetation growth and succession, and land-use/cover transition.
- Spatial decision support tools for land-use planning to minimize land and water degradation in small catchments.

Computer programming:

- NetLogo (for multi-agent system and cellular automata simulation models).
- Turbo Pascal
- FoxPro
- Java (in learning)

Statistics:

- Multivariate statistics (SPSS, ECOSTAT) for ecological and environmental studies (e.g., plant community ecology, biodiversity assessment and monitoring, land-use choices, etc.)
- Geo-statistics (IDRISI/G-stat, ArcGIS) for ecological and environmental studies.
- Experimental designs and analyses in agricultural and forestry research.

Spatial analysis:

- Geographic Information System (GIS) and Remote Sensing (RS) applied for various fields in landscape ecology and environmental sciences (e.g., terrain analysis, land-use/cover classification, accessibility analyses, environmental risk assessment, etc.).
- Relevant operational skills of GIS/RS software: ArcView GIS, ArcInfo GIS, IDRISI, ERDAS Imagine, MapInfo, and some other thematic packages.

Environmental Risk Assessment (ERA) and Environmental Impact Assessment (EIA):

- Scientific process and relevant methods for ERA for tropical ecosystem, including human health.
- Scientific and administrative processes, relevant methods and tools for EIA.

Field surveys:

- Vegetation and soil survey.
- Questionnaire development for structured/semi-structured interviews on various topics in the natural resources management (e.g. land use and management, farming system studies, etc.).
- Rapid Rural Appraisal (RRA) and Participatory Rural Appraisal (PRA) for various topics in natural resources management (abundant experiences in Central Vietnam and Northern Thailand)

Curriculum Development

- Concepts, methodologies and relevant practical skills on participatory processes of Curriculum Development, including Training Need Assessment.

6. CURRENT RESEARCH INTERESTS

Multi-agent systems for spatio-temporally explicit simulation of coupled human-landscape systems, and the uses of these simulation models for scenarios studies to inform land-use policies. Some of my current focuses within this topic are:

- Adaptive decision-making of households on land use in changing socio-ecological landscapes and global climate.
- Integration of biophysical models into multi-agent simulation models.

Cellular automata and system dynamics models for simulating spatial ecological processes (esp. soil/water redistribution, vegetation growth and succession and land-use/cover transition).

Characterisation, dynamics, and driving forces of land-use systems in West Africa (Ghana and Burkina Faso) and Indochina peninsula (Vietnam, Laos, Cambodia and Thailand).

Spatio-temporal analysis and modelling of long-term land degradation in the background of global changes (focal regions: sub-Saharan Africa and Indochina peninsula).

6. FELLOWSHIPS/GRANTS

Ökumenisches Studienwerk (ÖSW)/EED Scholarship for Doctoral Study, August 2001 – February 2005

GTZ/ZEF's Doctoral Field Research Grant, August 2002 – August 2003

GTZ Scholarship for M.Sc. study, April 1996 – April 1998

Certificate of Merit for Excellent Achievements in Undergraduate Study, offered by the Student Association of Vietnam, January 1992.

Third Prize, Provincial Olympiad of Chemistry, Thua Thien – Hue province, Vietnam, 1987.

6. LANGUAGES: Vietnamese (mother tongue), English (working language)

Bonn, 28 April 2008