

Curriculum Vitae of Dr. Dr. Benteng ZOU

Address :

CREA, University of Luxembourg

162A, avenue de la Faiencerie

L-1511 Luxembourg

Tel : +352 46 66 44 6622, Fax :+352 46 66 44 6633.

E-mail : Benteng.Zou@uni.lu

Current Position : Assistant Professor in University of Luxembourg.

Language : Fluent in English and Chinese, and good in French.

EDUCATION

1. May. 2005–Feb. 2007 : Post-doctoral fellowship (from German Science Foundation), IMW(Institute of Mathematical Economics), Bielefeld University, Germany.
2. Sep. 2001–June 2005 : Ph.D, Economics Department, Catholic University of Louvain, Belgium.
3. Jan. 2000– Dec. 2000 : Post-doctoral fellowship (Education Ministry of France), Mathematics Department, Nantes University, France.
4. Sep. 1996–July 1999 : Ph.D, Mathematics Department, Peking University, China.
5. Sep. 1994–July 1996 : Graduate student(Equivalent to Master Degree), Mathematics Department, Peking University, China.
6. Sep. 1990–July 1994 : Bachelor Degree, Mathematics Department, Yan-tai University, China.

RESEARCH EXPERIENCE

Economic Ph.D Thesis

Ph.D Thesis Title : *Economic dynamics with heterogeneous capital goods* : (1) Different vintage capital models are introduced to consider new technology adoption, improvement and its cost. At the same time applying these theoretical models to study energy saving programm, and environmental (pollution) problem related to economic growth ; (2) New economic

geography : Bridging the gap between growth theory and the new economic geography, where capital can flow freely.

Published in Louvain-la-Neuve : CIACO, 2005. (UCL. Faculté des sciences économiques, sociales et politiques, NS 475).

Mathematical Ph.D Thesis Title

Initial-oblique derivative boundary value problems for parabolic equations with discontinuous coefficients

PUBLICATION LIST

Book

- [1] *Initial-Boundary Value Problems for Nonlinear Parabolic Equations in Higher Dimensional Domains*, Science Press, Graduate Series in Mathematics, Beijing/ New York, 2002 (with Guochun Wen).

Articles

- *On the dynamics of capital accumulation across space* (with Carmen Camacho, Maya Briani), to appear in European Journal of Operational Research.
- *Bridging the gap between growth theory and the new economic geography : The spatial Ramsey model* (with Raouf Bouckine, Carmen Camacho), to appear in Macroeconomic Dynamics.
- *Habit in pollution : An inquiry into intergenerational equity*(with Ingmar Schumacher), to appear in Journal of Environmental Economics and Management.
- *Economic development and environmental quality : a reassessment in light of nature's self-regeneration capacity*, (with Luisito Bertinelli and Eric Strobl), to appear in Ecological Economics.
- *Does urbanization foster human capital accumulation ?* (with Luisito Bertinelli), to appear in Journal of Developing Area.
- *An Extended Solow Growth Model with Emigration : Transitional Dynamics and Skills Complementarity* (with Patrice Pieretti), to appear in Economics Bulletin.
- *Vintage capital, Optimal investment and Technology adoption* , Economic Modelling (2006).
- *A comparative study of energy saving technical progress in a vintage capital model* (with Augustin Barahona), Resource and Energy Economics (2006), Volume 28(2), 181–191.
- *Energy Saving Technical Progress in a Vintage Capital Model* (with Augustin Barahona), Economic Modelling of Climate Change and Energy Policies (2005), Chapter 11, Ed. Edward Elgar.

- *The spatial Solow model*, (with Carmen Camacho), *Economics Bulletin* (2004) 18(2), 1–11.
- *Oblique derivative problems for quasilinear parabolic equations with VMO coefficients*, *Advanced in Mathematics*, (2001)30, 367–376.
- *Some initial-oblique derivative boundary value problems for quasilinear parabolic equations with unbounded coefficients*, *Journal of System Science and Complexity* (2001)14, 269–277.
- *Initial-irregular oblique derivative problems for nonlinear parabolic complex equations of second order with measurable coefficients*, *Nonlinear Analysis, Theory, Method and Application*(2000) 39,937–953 (with Guochun Wen).
- *Estimates of solutions for linear parabolic equations with VMO coefficients*, *Boundary Value Problems, Integral Equations and Related Problems*, Edited by Jianke Lu and Guochun Wen, World Scientific, Singapore, 2000, 204–210.
- *Initial-oblique derivative problems for linear parabolic equations of second order with measurable coefficients in a higher dimensional domain*, *Acta Mathematicae Applicatae Sinica*, (1999) 22(4), 579–588 (with Guochun Wen).
- *Initial-irregular oblique derivative problems for nonlinear parabolic complex equations of second order with measurable coefficients*, *Recent Developments in Complex Analysis and Computer Algebra* (1999), 345–372 (with Guochun Wen).
- *Estimates of initial-irregular oblique derivative problems for linear parabolic equations of second order with measurable coefficients*, *Science in China (Series A)* (1998) 41(11), 1163–1175 (with Guochun Wen).

Work in Progress

- *Sustainable economic development and environment : Theory and evidence* (with Luisito Bertinelli and Eric Strobl), IMW working paper, 369.
- *Pollution technologies and sustainable economic development*, (with Luisito Bertinelli and Eric Strobl), IMW working paper 379.
- *Brain drain and factor complementarity* (with Patrice Pieretti), IMW working paper 380.
- *Foreign direct investment in the presence of technological spillovers and international competition*, *Computing in Economics and Finance* 2006, 267, Society for Computational Economics (with Herbert Dawid, Alfred Greiner).
- *Decentralization and growth : Theory and Evidence* (with Luisito Bertinelli and Eric Strobl), mimeo 2006.

- *Who is more risk aversion : the young or the old ?*, mimeo 2006.
- *Innovation and the Environment in Developed Economies* (with Luisito Bertinelli and Eric Strobl).
- *Under-investment in public goods : The influence of state depended investment costs* (with Nikos Ebel) mimeo 2007.
- *Foreign direct investment under international competition : Control of Spillover ?* (with Herbert Dawid and Alfred Greiner) mimeo 2007.
- *How brain drain and remittances affect fertility and economic growth in developing countries* (with Patrice Pieretti and Luca Marchiori) mimeo 2007.
- *Endogenous education, Brain Drain, and their economic effects* (with Patrice Pieretti and Luca Marchiori).

TEACHING EXPERIENCE

- Apr. 2006– May 2006 : Visiting professor, Dipartimento di Scienze Economiche e Aziendali Facolta' di Economia LUISS - Guido Carli, Rome, Italy. Course Taught : Difference and Differential Equations with application in Economics.
- Feb. 2006– Mar. 2006 ; Feb. 2007–June 2007 : Visiting assistant professor, Economics Department, B.E.T.A/ Theme, UMR 7522 du CNRS, Université Louis Pasteur, Strasbourg, France. Course Taught : Stochastic Calculus in Finance.
- Jan. 2004–May 2004 : Teaching Assistant, Catholic University of Louvain, Belgium, Course Tutored : Dynamical Methods in Economics.
- Jan. 2001–July 2001 : Visiting Assistant Professor, University of Iowa, IA, USA, Course Taught : Engineer Calculus II.
- Sep. 1999–Dec. 1999 : Assistant Professor, Yantai University, China, Course Taught : Linear Algebra.
- Feb. 1996–Jan. 1999 : Teaching Assistant, Peking University, China, Course Tutored : Mathematics Analysis, Linear Algebra, and Functions of a Complex Variable.

Papers Presented in Conference/Seminar

- *How brain drain and remittances affect fertility and economic growth in developing countries* , Sep. 2007, IMW seminar, Bielefeld University, Germany.
- *Who is more risk averse : the young or the old ?*, March, 2007, EBIM workshop, Bielefeld University, Germany.
- *Brain Drain and Factor Complementarity*, March, 2006, EBIM workshop, University Paris I, France.

- *Sustainable Economic Development and Environment : Theory and Evidence*, Oct. 2005, DIW Seminar, Berlin, Germany.
- *Sustainable Economic Development and Environment : Theory and Evidence*, Sep. 2005, Vintage Capital Workshop, Florence, Italy.
- *A comparative study of energy saving technical progress in a vintage capital model*, Jan. 2005, T2M conference, Lyon, France.
- *Bridging the gap between growth theory and the new economic geography : The linear spatial Ramsey model*, PET Peking04, August, 2004, Peking, China.
- *The Spatial Solow model*, Arpil, 2004. Seminar of Economics Department, B.E.T.A/ Theme, UMR 7522 du CNRS, Université Louis Pasteur, Strasbourg, France.
- *Vintage capital, optimal investment and technology adoption*, Nov. 2003, Seminar of Economics Department, University of Luxembourg, Luxembourg.