

Xiao Liu

CONTACT INFORMATION	Helmholtz Str. 22 (Raum E02) 89081 Ulm	<i>Phone:</i> 0731/5023522 <i>E-mail:</i> xiao.liu@uni-ulm.de <i>WWW:</i> http://www.uni-ulm.de/en/mawi/analysis/members/xiao-liu.html
RESEARCH INTERESTS	Functional Analysis, Partial Differential Equation, Set Theory, Operations Research, Mathematical Physics, Real Analysis	
EDUCATION	Universität Ulm , in Ulm, Baden-Württemberg, Germany Scientific Co-worker, Mathematics, September 2011 - present <ul style="list-style-type: none">• One of members in the research group on "Symmetry methods in quantum graphs" Ludwig-Maximilians Universität , in Munich, Bavaria, Germany Pre-Doc. Student, Mathematics, October 2008 - June 2011 <ul style="list-style-type: none">• Scientific Work Topic: "The leading behavior of ground-state energy of large molecules according to Brown and Ravenhall in Scott correction" Ludwig-Maximilians Universität , in Munich, Bavaria, Germany M.S., Mathematics, April, 2008 <ul style="list-style-type: none">• Master thesis in the field of analysis and mathematical physics with the predicate good• Two seminars in the field of analysis with the predicate excellent Shandong University, in Jinan, P.R.China Bachelor degree (predicate: excellent) in Mathematical Department, June, 2003	
HONORS AND AWARDS	Research sponsored by German Research Funding (DFG) , October, 2008 - July, 2009 Research Topic: The mathematical expression of ground-state energy of large molecules according to Brown and Ravenhall in Scott correction	
ACADEMIC EXPERIENCE	Supervising Tutorials in Mathematical Department of Ludwig-Maximilians University <ul style="list-style-type: none">• The course of Partial Differential Equation (master level), April, 2010 - July, 2010 http://www.mathematik.uni-muenchen.de/~liu/ http://www.mathematik.uni-muenchen.de/~liu/SoSe2010.php Teaching Assistants in Mathematical Department of Ludwig-Maximilians University Supervising Lectures and Tutorials (undergraduate level), October, 2005 - July, 2008 <ul style="list-style-type: none">• Ordinary Differential Equation, Summer 2008;• Complex Analysis, Summer 2007;• Analysis II, Summer 2006;• Analysis I, Winter 2005. (Responsibilities: Supervising Students in Classroom Environment as well as one on one by Solving Exercises, Evaluation of homework Results and Grading Final Exams) Research Assistants in Mathematical Department of Ludwig-Maximilians University <ul style="list-style-type: none">• Research Topic: Mathematical description of the asymptotic result for the ground-state energy of negative ions, Winter 2007;	

- Research Topic: The leading behaviour of ground-state energy in systems with the number of electrons proportional to the nuclear charge, Winter 2006.

PUBLICATION

Xiao Liu. The Leading Behaviour of Ground-State Energy of Heavy Ions According to Brown and Ravenhall. *Master's thesis, Math-Ph*, Preprint arXiv:1008.2120.

OTHER SKILLS AND
QUALIFICATIONS

- Econometrics:
Portfolio Analysis, Capital Market, Risk Management
- Software Skills:
LaTeX, Cryptography, Computer Networks, Multi-media Technology, C++, Assembly Language
- German Language Skill:
Final examination of the structure graduate II in scientific language, German courses for foreigners at the University of Munich registered association in July, 2009
- English Language Skill:
GRE mathematical Subject (Score 600), November, 2004
TOEFL examination (**TWE: 5.5**), January, 2004
GRE general examination in October, 2003
- **Runner-up of Chess Matches** of Shandong University in P.R.China in 2001
- Third prize of National Mathematical Competition in P.R.China in 1998
- First prize of Physical Competition of Jinan in P.R.China in 1998
- Third prize of Physical Competition of Shandong in P.R.China in 1998

PROFESSIONAL
EXPERIENCE

Working at Zhengfang Renhe Information Company attached to Shandong Academy of Sciences in Jinan, P.R.China July, 2003 - March, 2005