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October 4, 2008

## Yang Kuang, Professor of Mathematics

### EDUCATION:

- Aug., 1985–July, 1988, **University of Alberta**, Canada, **Ph.D.**
- Nov., 1984–Aug., 1985, Mathematical Institute, Wolfson College, **University of Oxford**, U.K. (M.Phil. program)
- Aug., 1983–July, 1984, Applied Mathematical Institute of **Academic Sinica**, P.R.C.
- Aug., 1980–Aug., 1983; July, 1984–Nov., 1984, **University of Science and Technology of China**, P.R.C., **B.Sc.**

### PROFESSIONAL EXPERIENCE:

- Arizona State University, July, 1997–Present, **Full Professor**.
- Arizona State University, June, 2002–May, 2005, **Associate Chair, director of graduate studies**.
- National Tsing Hua University, Taiwan, May, 1999–June, 1999, **Visiting Professor**.
- University of Shizuoka, Japan, July, 1995–Aug., 1995, **Visiting Professor**
- University of Urbino, Italy, June, 1995–July, 1995, **Visiting Professor**
- University of Arizona, May, 1994–Dec., 1994, **Visiting Professor**
- Arizona State University, July, 1992–June, 1997, **Associate Professor**
- Arizona State University, Aug., 1988–June, 1992, Assistant Professor
- University of Alberta, 1986–1988, Izaak Walton Killam Scholar
- University of Alberta, 1985–1986, Teaching Assistant
- University of Oxford, 1984–1985, Graduate Student and Research Assistant.

### RESEARCH IMPACT:

1. **I have an h-index of 28.**
2. As of October 4, 2008, according to MathSciNet, Yang Kuang is cited 955 times by 568 authors in the MR Citation Database. Most Cited Publications Citations include.

- (a) **Cited 324 times.** Kuang, Yang Delay differential equations with applications in population dynamics. Mathematics in Science and Engineering, 191. Academic Press, Inc., Boston, MA, 1993. xii+398 pp. ISBN: 0-12-427610-5.
- (b) **Cited 47 times.** Kuang, Yang; Beretta, Edoardo Global qualitative analysis of a ratio-dependent predator-prey system. *J. Math. Biol.* 36 (1998), no. 4, 389–406.
- (c) **Cited 31 times.** Hsu, Sze-Bi; Hwang, Tzy-Wei; Kuang, Yang Global analysis of the Michaelis-Menten-type ratio-dependent predator-prey system. *J. Math. Biol.* 42 (2001), no. 6, 489–506.
- (d) **Cited 29 times.** Li, Yongkun; Kuang, Yang Periodic solutions of periodic delay Lotka-Volterra equations and systems. *J. Math. Anal. Appl.* 255 (2001), no. 1, 260–280.
- (e) **Cited 26 times.** Kuang, Yang; Freedman, H. I. Uniqueness of limit cycles in Gause-type models of predator-prey systems. *Math. Biosci.* 88 (1988), no. 1, 67–84.
- (f) **Cited 23 times.** Beretta, Edoardo; Kuang, Yang Geometric stability switch criteria in delay differential systems with delay dependent parameters. *SIAM J. Math. Anal.* 33 (2002), no. 5, 1144–1165 (electronic).
- (g) **Cited 23 times.** Beretta, Edoardo; Kuang, Yang Global analyses in some delayed ratio-dependent predator-prey systems. *Nonlinear Anal.* 32 (1998), no. 3, 381–408.
- (h) **Cited 21 times.** Kuang, Y.; Smith, H. L. Global stability for infinite delay Lotka-Volterra type systems. *J. Differential Equations* 103 (1993), no. 2, 221–246.
- (i) **Cited 21 times.** Kuang, Yang; Takeuchi, Yasuhiro Predator-prey dynamics in models of prey dispersal in two-patch environments. *Math. Biosci.* 120 (1994), no. 1, 77–98.
- (j) **Cited 20 times.** Kuang, Yang Global stability in delay differential systems without dominating instantaneous negative feedbacks. *J. Differential Equations* 119 (1995), no. 2, 503–532.

3. Top 5 cited items according to google scholar, as of October 4, 2008.

- (a) **Cited 1207+ times.** Kuang, Yang Delay differential equations with applications in population dynamics. Mathematics in Science and Engineering, 191. Academic Press, Inc., Boston, MA, 1993. xii+398 pp. ISBN: 0-12-427610-5.
- (b) **Cited 181 times.** Kuang, Yang; Beretta, Edoardo, Global qualitative analysis of a ratio-dependent predator-prey system. *J. Math. Biol.* 36 (1998), no. 4, 389–406.
- (c) **Cited 102 times.** S. B. Hsu, T.-W. Hwang, Y. Kuang, Global analysis of the Michaelis-Menten-type ratio-dependent predator-prey system, *Journal of Mathematical Biology*, 42, 2001, 489-506.

- (d) **Cited 101 times.** Kuang, Yang; Freedman, H. I. Uniqueness of limit cycles in Gause-type models of predator-prey systems. *Math. Biosci.* 88 (1988), no. 1, 67–84.
- (e) **Cited 96 times.** Li, Yongkun; Kuang, Yang Periodic solutions of periodic delay Lotka-Volterra equations and systems. *J. Math. Anal. Appl.* 255 (2001), no. 1, 260–280.

EDITORSHIP:

1. Mathematical Biosciences and Engineering, **editor-in-chief** (funding editor), 2003-.
2. Biology Direct, **associate editor**, 2007-.
3. Journal Of Computational And Applied Mathematics, advisory editor, 2008-
4. Discrete and Continuous Dynamical Systems (Series B), **associate editor**, 2000-.
5. Journal of Biological Systems, **associate editor**, 2004-.
6. International Journal of Biomathematics, **associated editor**, 2007-.
7. Pacific Journal of Applied Mathematics, **associated editor**, 2007-.
8. Bulletin of Biomathematics (in Chinese), **associate editor**, 1995-1997.
9. Proceedings of International Conference on Dynamical Systems and Differential Equations, (Springfield, 1996), **guest editor**.
10. Proceedings of International Conference on Mathematical Biology, (Guilin, 2002, Wuyi, 2008), **guest editor**.
11. Journal of Biomathematics(in Chinese), **associated editor**, 1997-2007.

**CURRENT RESEARCH GRANTS** (excluding several large pending proposals):

1. July 1, 04-June 30, 09, DMS/NIGMS 0342388. Collaborative Research:Towards an Integrative Mechanistic Theory of Within-Host Disease Dynamics. **\$1.6 million. PI.**
2. Sept. 15, 04-Aug. 31, 09. UBM: Interdisciplinary Training for Undergraduates in Biological and Mathematical Sciences at ASU. DMS 0436341. **\$800,000. PI**
3. May 1, 04-April 30, 09, NSF TPC 0353470. Developing a Professional Learning Community Model for Secondary Precalculus Teachers: A Model for Teacher Professional Growth. **\$4.5 million. Co-PI**
4. Sept. 15, 04-Aug. 31, 09. NSF MSP 0412537. Project Pathways: A Math and Science Partnership Program for Arizona Targeted Project Track. **\$12.5 million. Senior personnel**
5. EMSW21-MCTP: Mentorship Through Research: A Model for an Emerging Urban American University.NSF. **\$399,930.** 05/01/05-07/31/09. **Co-PI**

6. Catalyst: Center for Excellence in Adaptive Neuro-Biomechatronic Systems (CEANS) NSF, **\$110,945**. 03/01/05-08/28/09. **Senior personnel**

#### **PAST RESEARCH GRANTS:**

1. 2002-2005, NSF INT-0203702. NSF-Chilean Joint Project: Some Aspects of the Qualitative Theory of Functional Differential Equations, Joint with Anatoli. Ivanov, (Penn State), Hal. Smith, **\$27,306**. **ASU PI**
2. Sept. 1, 2000-Aug. 31, 2005, NSF Grant DMS-0077790, Project director, *Theoretical Frameworks for Ecological Dynamics Subject to Stoichiometric Constraints*. Amount: **\$314,994**. NSF mathematical biology (jointly supported by population biology and ecosystems). **PI**
3. 1993-1996, NSF Grant DMS-9306239, *Global qualitative analysis of ecological models with time delays and diffusions*. \$42,000. **PI**
4. 1991-1993, NSF Grant DMS-9102549, *Global qualitative analysis of ecological models with time delays and diffusions*. \$24,134. **PI**
5. 1990 CLAS Summer Research Award at Arizona State University. \$1,000. **PI**
6. 1989 CLAS Summer Research Award at Arizona State University. \$2,000. **PI**
7. 1989 Faculty Grant-in-Aid Award by Arizona State University. \$4,000. **PI**
8. 1986-89 Izaak Walton Killam Memorial Doctoral Study Research grant at University of Alberta. can\$1,500. **PI**

#### **HONORS, AWARDS, SCHOLARSHIPS AND PRIZES:**

1. 2008 Outstanding Graduate Mentor Award finalist, by the Graduate College of Arizona State University.
2. 2007 Outstanding Graduate Mentor Award finalist, by the Graduate College of Arizona State University.
3. 2000 Mentorship Appreciation Award, by the Graduate College of Arizona State University.
4. 1990 NSF Travel Award to ICM-90, Japan. \$2,000.
5. 1988 Andrew Stewart Graduate Research Prize for Doctoral Research by University of Alberta. can.\$2,500.
6. 1987 Graduate Research Travel Award by University of Alberta. can.\$500.
7. 1986-89 Izaak Walton Killam Memorial Doctoral Study Scholarship at University of Alberta. can.\$38,000.
8. 1984-86 Overseas Research Student Award, by University of Oxford. £4,000.

#### **SELECTED RECENT (last 5 years) INVITED TALKS:**

1. October 24, 2008. Scheduled to give an invited talk at the AMS meeting in Huntsville.
2. October 15, 2008. Scheduled to give a colloquium at Georgia Institute of Technology.
3. September 18, 2008. Scheduled to give a colloquium at University of Iowa.
4. June 9, 2008. Delivered an invited talk at the MTBI summer workshop.
5. June 6, 2008. Delivered an invited talk at the meeting on Mathematical Tools for Multi-Scale Biological Processes, held in Bozeman, MT.
6. May 19-20, 2008. Delivered two invited talks at the AIMS 7th meeting in Arlington, Texas.
7. May 2, 2008. Delivered an invited talk at the AMS regional meeting in Claremont Colloeges.
8. April 23, 2008. Delivered a colloquium at the department of mathematics of Claremont College.
9. April 22, 2008. Delivered an invited lecture at the department of mathematics of Pomona College.
10. April 11, 2008. Delivered a colloquium at the department of mathematics of University of Louisville.
11. March 1, 2008. Delivered an invited talk at the Arizona UNM days meeting at University of New Mexico, Albuquerque, New Mexico.
12. Oct. 5-7, 2007. Delivered an invited talk at the Meeting of Mathematical Modeling and Analysis of Populations in Biological Systems at University of Arizona, Tucson, Arizona.
13. June 25, 26, 2007. Delivered 4 invited lectures at the Delay differential mini-course at University of Utah, Salt Lake City, Utah.
14. June 13, 2007. MTBI summer workshop invited lectures.
15. May 29, 2007. Keynote speaker at the 4th International Mathematical Biology Conference, Wuyishan City, China, May 29-June 1.
16. May 23, 2007. Invited speaker at the EcoSummit, Beijing, China.
17. May 25, 2007. Invited lecture at Beijing University of Science and Technology, China.
18. April 11, 2007. Invited lecture at Iowa State University, Ames, Iowa.
19. Spet 29, 2006. Invited speaker at the Midwest Quantitative Biology Conference, Michigan State University.
20. Spet 18, 2006. Distinguished Mathematical Colloquium, The University of Texas-Pan American.

21. Aug. 2, 2006. SMB-SIAM life sciences joint annual meeting at Raleigh, North Carolina.
22. July 11, 2006. SIAM Annual Meeting, July 10-14, 2006, at the Boston Park Plaza Hotel and Towers in Boston, Massachusetts.
23. June 29, 2006. Invited global ecology workshop lecture. Mathematical Biosciences Institute, Ohio State University, Columbus.
24. June 4, 5, 2006. MTBI summer workshop invited lectures.
25. Nov. 21, 2005. Mathematical Biology Seminar. Mathematical Biosciences Institute, Ohio State University, Columbus.
26. Oct. 21, 2005. University of Nebraska, Lincoln, Mathematical Ecology Special Session, AMS regional meeting.
27. Aug. 28, 2005. Iowa State University, Ames, Iowa. Applied and Computational Mathematics Seminar.
28. April 18, 2005. University of California, Irvine. Applied mathematics colloquium talk.
29. April 9, 2005. Texas Tech University, Lubbock. AMS special session talk.
30. March 28, 2005. University of Michigan, distinguished mathematical biology talk.
31. March 4, 2005. California State University at Fresno, distinguished interdisciplinary mathematics talk.
32. Feb. 25, 2005. Colloquium talk. Purdue University.
33. Feb 11, 2005. Colloquium talk. Penn State University, College Station.
34. Society of Mathematical Biology Annual Meeting, July 25-28, 2004. University of Michigan.
35. AIMS' Fifth International Conference on Dynamical Systems and Differential Equations, Pomona, June 16 - 19, 2004.
36. June 4, 2004. Colloquium talk. Stanford University.
37. March 4, 2004. Colloquium talk. University of Colorado, Boulder.
38. Jan. 31, 2004. Center for Nonlinear Studies, Los Alamos National Lab.
39. Oct. 15, 03, University of Michigan, distinguished mathematical biology talk.

**COLLABORATED POSTDOCTORAL ASSOCIATES/VISITING PROFESSORS:**

Mentored several postdoctoral associates: 1). Yunkun Li (01-02), 2). Tzy-Wei Hwang (02-03), 3). Meng Fan (03-04), 4). Hao Wang (07), 5). Craig Thalhauser (07), 6). Abdessamad Tridane (07-08), 7). Kaifa Wang (08-09).

## GRADUATE STUDENT SUPERVISION:

### Present Ph.D Students

- Lydia Bilinsky (US citizen), expected to graduate in 2009.
- Sarah Hews (US citizen), expected to graduate in 2009..

### Previous Students

#### • Past Ph.D students

(10) **Yun Kang**, Ph.D thesis defended on May 23, 2008 (co-advisor). Title: *Dynamics of discrete plant-herbivore models*. Time to graduation is 4 years. She is an assistant professor at ASU-East.

(9) **Craig Thalhauser**, Ph.D thesis defended on July 30, 2007. Title: *A Two-State Model of Cancer Growth: Evolutionary Implications at the Local and Global Scales*. He is a postdoctoral fellow in University of California, Irvine. Time to graduation is 4 years.

(8) **Hao Wang**, Ph.D thesis defended on Nov. 30, 2006. Title: *Mathematical Analysis of Trophic Interactions: From Bacteria Competition to Lemming Cycles*. He held a joint assistant professor position in the school of Mathematics and Department of Biology in Georgia Tech. Time to graduation is 3.5 years.

(7) **Abdessamad Tridane**, Ph.D thesis defended on Oct. 18, 2006. Title: *Mathematical analysis of immunological and epidemiological models of influenza infection*. Time to graduation is 4 years. He is an assistant professor at ASU-East.

(6) **Clint Mason** (US citizen), Ph.D thesis defended on June. 7, 2006. Title: *Modeling glucose dynamics leading to a diabetic state with simulations performed from data on Pima indians*. He is a NIH postdoctoral fellow in NIDDK in Phoenix. Time to graduation is 3.5 years.

(5) **Roxana Lopez-Cruz**, Ph.D thesis defended on Feb. 7, 2006. Title: *Structured SI epidemic models with applications to Hiv epidemic*. Time to graduation is 4.5 years. She is a full professor and the director of the school of Mathematics of Universidad Nacional Mayor de San Marcos, Lima, Peru.

(4) **Dr Jiayu Li**, Ph.D thesis at ASU: *The dynamics of glucose-insulin endocrine metabolic regulatory system*, Dec, 2004. He is currently an assistant professor at University of Louisville. Time to graduation is 3.5 years. (excluding time in industry).

(3) **Dr Chris Miller**, Ph.D thesis at ASU: *Modeling and analysis of stoichiometric two patch consumer-resource system*, Dec, 2002. Chris is now an assistant professor of the Department of Mathematics in Glendale Community College. Time to graduation is 3 years.

(2) **Dr Irakli Loladze**, Ph.D thesis at ASU: *The importance of being stoichiometric: Population dynamics from the perspective of chemical elements*, May, 2001. Irakli an assistant professor in the Department of Mathematics in Univ. Nebrasks at Lincoln in the Fall, 2003. Time to graduation is 3 years.

(1) **Dr. Bingtuan Li**, Ph.D thesis at ASU: *Analysis of chemostat-related models with distinct removal rates*, Aug. 1998 (Was a math. biol. postdoctor fellow at IMA (1998-1999), a research instructor at U. of Utah (1999-2001, working with Mark Lewis), now a professor at U. of Louisville). Time to graduation is 4 years.

### Present Master Students

- (1) Loan Nyugen (US citizen).
- Chair of the M.Sc or M.N.S. committee for (1) Mr. Nejib Smaoui, (M.N.S.) graduated in May, 1990; (2) Mr. Samir Hammadi, (M.N.S.) graduated in May 1994; (3) Mr. Mattew Lyles, (M.A with a thesis) Analysis of a Ratio-Dependent Predator-Prey System with Two Patches, graduated in May 1997; (4) Mr. Travis Steele, (M.A with a thesis) An Analysis of a Ratio-Dependent Predator-Prey System with Competing Prey Species, graduated in Aug. 1997.; (5) Mr. Jay Wopperer, Thesis title: The Tuberculosis Endemic, Dec., 2002. (6) Andrew Jeanings, Master in passing, Aug. 2006 (US citizen). (7) Ron Ogborne, Master in passing, Aug. 2006 (US citizen). (8) Steffen Eikenberry, July, 2008 (US citizen). (9) Mathew Wienke, Aug. 2008 (US citizen).
- Was a member of numerous M.Sc committees and a member of the following Ph.D. committees for (1) Mr. Jeffrey Kuo(1988-1990, Mech. Eng., graduated in Dec., 1990), (2) Mr. Steven Gustafson(1989-1990), (3) Mr. Tiemao Peng(1990-1991 , Electr. Eng.), (4) Ms. Lan Xu(1991), (5) Ms. Hsiu-Rong Zhu(1989-1991). (6) Mr. Yuqin Zhang(1989-1993, Electr. Eng.), (7) Mr. Edisanter Lo(1990-1993), (8) Mr. Qi Zhao (1990-1992), (9) Mr. Zhongmin Liu(1991-1994), (10) Mr. Baorong Tang(1989-1995), (11) Ms. **Zhilan Feng**(1989-1994), (12) Mr. He-Yi Wu(1993-1995), (13) Mr. Tao Zhao(1991-1995), (14) Mr. Qian An(1993-1995), (15) Eric. Stemmon(1997-1998), and many many more.

### GRADUATE COURSES TAUGHT:

- MAT 598: Mathematical models in medicine.
- MAT 591: Industry Frontiers, seminar course.
- MAT 598: Applied Delay Differential Equations.
- MAT 598: Mathematical Biology, I, II.
- MAT 591: Mathematical Biology Seminar.
- MAT 575: Advanced Ordinary Differential Equations II.
- MAT 574: Advanced Ordinary Differential Equations I.
- MAT 475: Differential Equations and Dynamical Systems.
- MAT 462: Partial Differential Equations.
- MAT 461: Applied Complex Analysis.

- MAT 460: Applied Real Analysis.
- MAT 451: Mathematical Population Dynamics.

#### SEMINARS ORGANIZED:

- Industry Frontiers, seminar course, 2002-2005.
- Mathematical Biology, 1988-.
- Mathematical Medicine, 2004-.

#### PROFESSIONAL ACTIVITIES:

(1): Presented numerous **invited and keynote** lectures at various universities, international and national conferences.

(2): Current and past member of the conference organizational and scientific committees for numerous national and international conferences, including the first SMB-CSMB meeting to be held in June, 2009, in China. I served as a co-chair of the International Conference on Mathematical Biology, Wuyi, China, May-June, 2007. I was a member of the conference organizational committee for the International Conference on Mathematical Biology, held in HangZhou, China, May 26-29, 1997 and Guiling, 2002.

(3): Organized the Workshop on Mathematical Models in Biology and Medicine at ASU in 2006.

(4): Organized many special sessions and mini-symposiums in international conferences (ICIAM-91, Washington, D.C.; Pacific Rim Dynamics Conf., Maui, 2000; SIAM Snowbird dynamical system conference, May 20-24, 2001; AMS-SIAM Annual Meeting, Jan. 6-9, 2004, Phoenix; Fifth AIMS conference, June 16-19, 2004, Pomona; WCNA 2004, June 30-July 7, 2004; Society of Mathematical Biology Annual Meeting, July 25-28, 2004), at ASU (Mini-symposium on Nonlinear Analysis and Biological Modeling, Oct. 13-14, 1992 at ASU), and at ASU (Mini-symposium on Math. Biol. and Delay Equations, May 27, 1996 at ASU).

(5): Refereeing numerous NSF proposals in U.S. and proposals from many other countries.

(6): Reviewing for Mathematical Reviews and ZENTRALBLATT.

(7): Refereeng book proposals for Academic Press, Prentice Hall, etc.

(8): Refereed a total of several hundreds papers for *Mathematical Biology related*: 1) American Naturalist; 2) J. Math. Biol.; 3) Theoretical Population Biology; 4) Math. Biosci.; 5) Math. Biosc. Eng. ; 6) Applied Math. Letter; 7): Bull. Math. Biol.; 8)SIAM J. Appl. Math.; 9). J. Biological Systems; 10). J. Biological Dynamics, etc.

*Applied Math.*: 1) SIAM J. Math. Anal.; 2) J. Math. Anal. Appl.; 3) J. Differential Equations; 4) Canadian Applied Math. Quarterly; 5) Discrete and Continuous Dynamical Systems; 6) Proceedings of AMS; 7) Proceedings of Royal Soc. Edinburgh A.; 8) Nonlinear Analysis, ATM; 9)Rocky Mount. J. Math; 10) DCDS-B, etc.

#### PROFESSIONAL AFFILIATIONS:

Society of Integrative and Comparative Biology, 2005-  
The American Association for the Advancement of Science, 2005-  
Society for Mathematical Biology, 2000-  
The New York Academy of Science, 1993-1994.  
American Mathematics Society, 85-.  
Canadian Mathematical Society, 86-88.  
Canadian Applied Mathematical Society, 86-88, 92-94.  
American Mathematical Association, 87-88.  
Society for Industrial and Applied Mathematics, 87-88, 91-92, 2001-

#### DISSERTATIONS:

1. *Several Algorithms for Quadratic Programming and the Comparisons Among Them*, Thesis for B.Sc. in U. of Sci. & Tech. of China, 1984, (in Chinese), 44 pages.
2. *Limit Cycles in Gause-Type Predator-Prey Systems*, Ph.D. thesis, University of Alberta, Canada, 1988, 110 pages.

#### BOOKS, EDITED SPECIAL ISSUES:

1. Y. Kuang: *Delay Differential Equations with Applications in Population Dynamics*, volume 191 in the series of Mathematics in Science and Engineering, Academic Press. 1993. (398 pages)
2. Lansun Chen, Yang Kuang, Shigui Ruan and Glenn Webb, *Advances in Mathematical Biology*, a special issue (vol 4, #3, 2004) of DCDS-B.
3. Lansun Chen, Meng Fan, Yang Kuang and Huaiping Zhu, *Proceedings of 4th International Conference on Mathematical Biology*, a special issue (vol 1, issue 2, 2008) of *International Journal of Biomathematics (IJB)*.
4. Lansun Chen, Meng Fan, Yang Kuang and Huaiping Zhu, *Proceedings of 4th International Conference on Mathematical Biology*, a special issue (vol 38, issue 5, 2008) of *Rocky Mountain Journal of Mathematics*.

#### REFEREED PUBLICATIONS:

118. Hao Wang, Katherine Dunning, J. J. Elser and Y. Kuang: *Daphnia species invasion, competitive exclusion, and chaotic coexistence*, in review.
117. S. Hews, S. Eikenberry, J. D. Nagy and Y. Kuang. *Rich dynamics of a Hepatitis B viral infection model with logistic hepatocyte growth*, in review.
116. S. A. Gourley and Y. Kuang: *Dynamics of a neutral delay equation for an insect population with long larval and short adult phases*, in review.
115. Y. Kang, D. Armbruster and Y. Kuang: *A two patch model for plant-herbivore interactions*, in review.
114. Y. Kang, D. Armbruster and Y. Kuang: *Dynamics of plant-herbivore models with monotone plant growth rate*, in review.
113. Hao Wang, John D. Nagy, Olivier Gilg and Yang Kuang: *Predator maturation delay and functional response controls population cycles in lemmings and snowshoe hares*, in review (pdf 329k).

112. Z. Jackiewicz, Y. Kuang, C. Thalhauser and B. Zubik-Kowal: Numerical solution of a model for brain cancer progression after therapy, in review.
111. H. Wang, Y. Kuang and M. Fan: Periodic solutions of systems of delay differential equations, in review.
110. A. Tridane, K. P. Hadeler and Y. Kuang: Modelling the interaction of cytotoxic T lymphocytes and epithelial cells in influenza, in review.
109. S. Eikenberry, C. Thalhauser and Y. Kuang: Tumor-immune interaction, surgical treatment, and cancer recurrence in a mathematical model of melanoma, in review (pdf 758k).
108. Craig J. Thalhauser, Tejas Sankar, Mark C. Preul and Y. Kuang: Explicit separation of growth and motility in a new tumor cord model, *Bulletin of Math. Biol.*, to appear.
107. S. Eikenberry, T. Sankar, M. C. Preul, E. J. Kostelich, C. Thalhauser and Y. Kuang. The virtual glioblastoma: growth, migration, and treatment in a three-dimensional mathematical model. *Cell Proliferation*, to appear.
106. J. Li and Y. Kuang: Systemically modeling the dynamics of plasma insulin in subcutaneous injection of insulin analogues for type 1 diabetes, *Math. Biosc. and Eng.*, 6, to appear.
105. S. Eikenberry, S. Hews, J. D. Nagy and Y. Kuang. The dynamics of a delay model of HBV infection with logistic hepatocyte growth, *Math. Biosc. and Eng.*, 6, to appear.
104. H. Thieme, A. Tridane and Y. Kuang: An epidemic model with post-contact prophylaxis of distributed length. II. Stability and oscillations if treatment is fully effective, *Mathematical Modelling of Natural Phenomena*, to appear.
103. S. Zhang, W. Ma and Y. Kuang: Necessary and sufficient conditions for global attractivity of Hopfield-type neural networks with time delays, *Rocky Mountain J. Math.*, in press.
102. L. Min, T.-W. Y. Su and Y. Kuang: Mathematical Analysis of a basic virus infection model with application to HBV infection, *Rocky Mountain J. Mathematics*, 2008, in press.
101. H. Wang, J. Li and Y. Kuang: Enhanced modeling of the glucose-insulin system and its applications in insulin therapies, *J. Biological Dynamics*, in press.
100. S.-B. Hsu, T.-W. Hwang and Y. Kuang: Global dynamics of a predator-prey model with Hassell-Varley type functional response, *Disc. Cont. Dyn. Sys.*, B, **10**, 857-871 (2008).
99. H. Wang, Y. Kuang and I. Loladze: A mechanistically derived stoichiometric producer-grazer model, *J. Biological Dynamics*, **2**, 286-296 (2008).
98. L. Min, W. Li, Y. Su and Y. Kuang: A mathematical model of the dynamics for anti-HBV infection treatment with Peginterferon Alfa-2a, *Proceedings of the 2008 Int. Conference on Communication Circuit and Systems*, 1433-1436 (2008).
97. Y. Kang, D. Armbruster and Y. Kuang: Dynamics of a plant-herbivore model, *J. Biological Dynamics*, **2**, 89-101 (2008).
96. H. Thieme, A. Tridane and Y. Kuang: An epidemic model with post-contact prophylaxis of distributed length. I. Thresholds for disease persistence and extinction, *J. Biological Dynamics*, **2**, 221-239 (2008).
95. V. Shi, A. Tridane and Y. Kuang: A viral load-based cellular automata approach to modeling HIV dynamics and drug treatment, *J. of Theor. Biol.*, **253**, 24-35 (2008).

94. S. A. Gourley, Y. Kuang and J. D. Nagy: Dynamics of a delay differential model of hepatitis B virus infection, *J. Biological Dynamics*, **2**, 140-153 (2008).
93. H. Wang, H. Smith, Y. Kuang and J. J. Elser. Dynamics of stoichiometric bacteria-algae interaction in epilimnion, *SIAM J. Appl. Math.*, **68**, 503-522 (2007)
92. H. Wang, J. Li and Y. Kuang: Mathematical modeling and qualitative analysis of insulin therapies, *Math. Biosci.*, **210** (2007), 17-33.
91. Bingtuan Li and Y. Kuang. Heteroclinic bifurcation in the Michaelis-Menten type ratio-dependent predator-prey system, *SIAM J. Appl. Math.*, **67**, 1453-1464 (2007).
90. R. Lopez, Y. Kuang and A. Tridane. A simple SI model with two age groups and its application to USA HIV epidemics: to treat or not to treat?, to appear in *J. Biol. Syst.*, **15**, (2007) 169-184.
89. J. Li and Y. Kuang: Analysis of a model of the glucose-insulin regulatory system with two delays, *SIAM J. Appl. Math.*, **67**, 757-776 (2007).
88. G. Sui, M. Fan, I. Loladze and Y. Kuang: The Dynamics of a Stoichiometric Plant-Herbivore Model and Its Discrete Analog, *Math. Biosci. and Eng.*, **4**, 29-46 (2007).
87. H. Wang and Y. Kuang. Alternative models for cyclic lemming dynamics, (pdf2m). *Math. Biosci. and Eng.*, **4**, 85-99 (2007).
86. J. Zhang, M. Fan and Y. Kuang: Rabbits Killing Birds Revisited, *Math. Biosci.*, **203**, 100-123 (2006).
85. A. Makroglou and Y. Kuang. Some analytical and numerical results for a nonlinear Volterra integro-differential equation with periodic solution modeling hematopoiesis, *HERMIS Journal*, **7**, 1-17 (2006).
84. J. Li, Y. Kuang and C. Mason: Modeling the glucose-insulin regulatory system and ultradian insulin secretory oscillations with two time delays, *J. of Theor. Biol.*, **242**, 722-735 (2006).
83. A. Makroglou, J. Li and Y. Kuang: Mathematical models and software tools for the glucose-insulin regulatory system and diabetes: an overview, *Applied Numerical Mathematics*, **56**, 559-573 (2006).
82. T.-W. Hwang and Y. Kuang: Host extinction dynamics in a simple parasite-host interaction model, *Math. Biosci. and Eng.*, **2**, 743-751, (2005).
81. M. Fan, I. Loladze, Y. Kuang and J. J. Elser: Dynamics of a stoichiometric discrete producer-grazer model, (pdf482K), *J. Difference Equations and Applications*, **11**, 2005, 347364.
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2. Y. Kuang and C. McDiarmid: On the bandwidth of random graphs, *Ars Combinatoria*, **20-A**, 29-36 (1985).
1. Y. Kuang: Another method of the "chip-test" of the associative law of finite group, *J. of U. of Sci. & Tech. of China*, May, 174-178 (1983) (in Chinese).

#### BOOK REVIEWS:

1. Book review in *J. of Difference Equations and Applications*, 561-562, **5**(1999).
2. Book review for Method of Variation of Parameters for Dynamic Systems, by V. Lakshmikantham and S. G. Deo, *SIAM Review*, **42**, 753(2000)
3. Book review for Dynamical Systems and Their Applications in Biology edited by Shigui Ruan, Gail S.K. Wolkowicz, and Jianhong Wu. *SIAM REVIEW*, 174-175, **46**(2004).

#### CONFERENCES:

1. Tenth British Combinatorial Conference, Glasgow, July, 1985.
2. The Fourth IMA Conference on Mathematical Theory of the Dynamics of Biological Systems, Oxford, July, 1986.
3. The XI International Conference on Nonlinear Oscillations, Budapest, August, 1987.
4. Special Sessions: Applications of Differential Equations to Population Ecology, Joint Mathematical Meetings of AMS and AMA, Atlanta, Jan. 1988 (Invited Speaker).
5. Geoffrey J. Butler Memorial Conference in differential Equations and Mathematical Biology, Edmonton, June, 1988.

6. Joint Mathematics Meetings of AMS and AMA, Phoenix, Jan. 11-14, 1989.
7. The Ninth Annual Southeastern-Atlantic Regional Conference on Differential Equations, University of North Carolina at Charlotte, Oct. 13-14, 1989(supported by the conference).
8. International Conference on Differential Equations and Applications to Biology and Population Dynamics, Claremont, California, Jan. 10-13, 1990.
9. SIAM Conference on Dynamical Systems, Orlando, Florida, May 7-10, 1990.
10. The International Conference on the Numerical Solution of Volterra and Delay Equations, Tempe, Arizona (ASU), May 25-28, 1990 (Invited Speaker).
11. Minisymposium "Delay Differential Equations in Population Dynamics", in the Second International Conference on Industrial and Applied Mathematics, Washington, D.C., July 8-12, 1991 (Minisymposium Organizer and Speaker).
12. Midwest Dynamical Systems Conference at Montana State University, Oct. 11-13, 1991(supported by the conference).
13. 20th Meeting, The Midwest Conference on Differential Equations, The University of Iowa, Dec. 6-7, 1991.
14. The Second Geoffrey J. Butler Memorial Conference on differential Equations and Mathematical Biology, Edmonton, June 17-20, 1992 (invited speaker).
15. Annual Meeting of Canadian Applied Math. Soc., North York, Ontario, May 30, June 2, 1993 (invited speaker)
16. International Conference on Differential Equations and Applications to Biology and Industry, Claremont, California, June 1-4, 1994 (invited half-hour speaker).
17. Summer Seminar on ODE and FDE 1995, Karuizawa, Japan, July 30-Aug. 1, 1995(invited main speaker, supported by the conference).
18. Mathematical Models in Population Dynamics, Logan, Utah, Aug. 17-19, 1995(invited contributing speaker, supported by the conference).
19. Volterra Centennial, Tempe, Arizona (ASU), May 27-30, 1996 (minisymposium organizer).
20. Mathematical Theory of Networks and Systems, St. Louis, Missouri, June 24-28, 1996(invited speaker in special session).
21. An International Conference on Differential Equations with Applications to Biology, Dalhousie University, Halifax, Nova Scotia, Canada, July 25-29, 1997. (invited speaker).
22. AMS regional conference, special session on mathematical biology, Nov. 13-15, 1998, Tucson.(invited)

23. Third international conference on dynamics and applications, May 26-29, 1999, Atlanta,(invited)
24. Pacific Rim Dynamical System Conference, Lahaina, Maui, Hawaii, Aug. 9-13, 2000, (invited minisymposium speaker and organizer)
25. The second annual genes to ecosystems project meeting, Lake Itasca, University of Minnesota Biological Station, MN Jan. 7-10,2001. (invited speaker)
26. Sixth SIAM Conference on Applications of Dynamical Systems, Snowbird, Utah, May 20-24, 2001. (minisymposium organizer)
27. The third annual genes to ecosystems project meeting, Kingston, Oklahoma (Lake Texhoma), University of Oklahoma Biological Station, Jan. 9-13, 2002.(invited speaker)
28. Workshop on Mathematical Models in Cancer, May 3-5, 2002, U. of Vanderbilt.
29. Annual meeting of the American Society of Integrative and Comparative Biology, Toronto, Jan. 5-9, 2003 (invited speaker)
30. The fourth annual genes to ecosystems project meeting, Guaymas, Mexico, March 16-21, 2003.(invited speaker)
31. The Fourth Geoffrey J. Butler Memorial Conference, June 17 - 21, 2003. University of Alberta, Edmonton, Alberta, Canada. (invited main speaker) Stoichiometry and biodiversity.
32. AMS regional meeting, Oct. 4-6, 2003, Boulder, CO. Invited Special session speaker.

*Selected talks in the last 48 months are listed in a earlier section.*