

CURRICULUM VITAE

Ye-Lin Ou (08/18/2018)

Mailing Address

Department of Mathematics
Texas A & M University-Commerce
Commerce, TX 75429

Tel.: (903) 886-5949 (office)
Email: yelin.ou@tamuc.edu

Education

- Ph.D. in Mathematics, May 2005, University of Oklahoma, USA.
- M.S. in Mathematics, December 2003, University of Oklahoma, USA.
- B.S. in Mathematics, July 1982, Guangxi University for Nationalities, P. R. China.

Employment History

- 09/2018: Professor, Texas A & M University-Commerce.
- 08/2013—08/2018: Associate Professor, Texas A & M University-Commerce.
- 08/2006—07/2013: Assistant Professor, Texas A & M University-Commerce.
- 09/2005—06/2006: Visiting Assistant Professor, University of California, Riverside.
- 08/2000—05/2005: Graduate Teaching Assistant, University of Oklahoma.
- 12/1997—07/2000: Professor, Guangxi University for Nationalities, China.
- 12/1992—11/1997: Associate Professor, Guangxi University for Nationalities, China.
- 12/1987—11/1992: Lecturer, Guangxi University for Nationalities, China.
- Visiting Research Fellow:
 - ★ 05/1999—07/1999: University of Brest, France.
 - ★ 03/1999—05/1999: International Center for Theoretical Physics, Italy.
 - ★ 06/1997—08/1997: University of Brest, France.
 - ★ 01/1996—03/1996: University of Brest, France.
 - ★ 12/1994—12/1995: University of Leeds, UK.
 - ★ 09/1991—05/1992: International School for Advanced Studies, Italy.

Teaching Awards

- ★ 2012, “Texas A & M System Student Recognition Award for Teaching Excellence”, USA.
- ★ 2003, “Harold Huneke Teaching Award” by College of Arts and Sciences, the University of Oklahoma, USA.
- ★ 2000, “Top-Ten Outstanding Young Teachers of the Province” by the Education Department of Guangxi Province, China.
- ★ 1998, “Excellent teachers of China” by the National Education Department of China.
- ★ 1998, “Model Teachers of the University” by Guangxi University for Nationalities, China.
- ★ 1993, “Excellent Teachers of Guangxi Province” by the Government of Guangxi Province, China.
- ★ 1993, “Model Teachers of the University” by Guangxi University for Nationalities, China.

Research Awards

- ★ 2012, “The Dev R. Chopra Award for Research”, Faculty Senate of Texas A & M Univ. Commerce, USA.
- ★ 2010, “Junior Faculty Research Award”, Texas A & M University-Commerce, USA.
- ★ 2000, The second-place award of “Science and Technology in Progress” by the Government of Guangxi Province, China.
- ★ 1998, The first-place award of “Science and Technology in Progress” by the Education Department of Guangxi Province, China.
- ★ 1998, The first-place award of “Science and Technology in Progress” by Guangxi University for Nationalities, China.

Grants, Research Fellowships and Scholarships

27. Visiting Research Fellow, School of Mathematical Science, Fudan University, Shanghai, 05/15-06/15, 2018.
26. Visiting Research Fellow, University of Brest, France, 05/18-06/18, 2017.
25. Collaboration Grant for Mathematicians, Simons Foundation, 2016, **PI**, \$35,000.
24. Visiting Research Fellow, School of Mathematical Science, Fudan University, Shanghai, 05/17-06/17, 2016.
23. Visiting Scholar, Shanghai Center for Mathematical Science, 09/01–10/30, 2015.
22. Faculty Development Program, Fall 2015.
21. International Faculty Development Grants, Texas A & M Commerce, 2011, **PI**, \$1600.
20. The geometry of biharmonic maps and biharmonic submanifolds, NSF of Guangxi, P. R. China, 2011-2014, **PI**, \$6400.
19. Research Enhancement Project, Texas A & M Univ.-Commerce, 2010, **PI**, \$6000.
18. Research Enhancement Project, Texas A & M Univ.-Commerce, 2009, **PI**, \$5500.
17. Research Enhancement Project, Texas A & M Univ.-Commerce, 2008, **PI**, \$8500.
16. The Mini-Grant Program of Texas A & M University-Commerce, 2007, **PI**, \$700.
15. Natural Science Foundations of Guangxi Province, P. R. China, 2000-2003, **PI**, \$6000
14. “Foundations for Young Talents of the New Century”, the Government of Guangxi Province, China, 1999-2002, **PI**, \$6500.
13. Natural Science Foundations of Guangxi Province, China, 1996-1998, **PI**, \$5500.
12. Visiting Mathematician Fellowship, International Center for Theoretical Physics, Italy, 1999.
11. Visiting Research Fellowship, University of Brest, France, 1999.
10. Visiting Research Fellowship, University of Brest, France, 1997.
9. Visiting Research Fellowship, University of Brest, France, 1996.
8. Visiting Research Fellowship, International School for Advanced Studies, Italy, 1991.
7. Senior Abroad-Visiting (one-year) Fellowship, the National Education Department of China, 1995.
6. Abroad-Visiting (two-year) Scholarship, the Government of Guangxi Province, China, 1983-1985.
5. “Brixey Graduate Scholarship”, College of Arts and Sciences, the University of Oklahoma, USA, 2001.

4. “Richard V. Andree Memorial Scholarship”, College of Arts and Sciences, the University of Oklahoma, USA, 2002,
3. “Richard V. Andree Memorial Scholarship”, College of Arts and Sciences, the University of Oklahoma, USA, 2003.
2. “Huneke Graduate Scholarship”, College of Arts and Sciences, the University of Oklahoma, USA, 2004.
1. “Huneke Graduate Scholarship”, College of Arts and Sciences, the University of Oklahoma, USA, 2005.

Selected Research Publications

♣♣: **Research Book: Ye-Lin Ou** and B. -Y. Chen, “Biharmonic maps and biharmonic submanifolds in Riemannian Geometry”, contract signed with **World Scientific Publishing Co Pte Ltd** in July 2017.

2018:

42. E. Ghandour and **Y. -L. Ou**, Generalized harmonic morphisms and conformal biharmonic maps, *J. Math. Anal. Appl.*, 464 (2018), 924-938.
41. P. Baird and **Y. -L. Ou**, Biharmonic conformal maps in dimension four and equations of Yamabe-type, *J. Geom. Anal.*, to appear, 2018 arXiv:1707.03326.

2017:

40. **Y. -L. Ou**, f -Biharmonic maps and f -biharmonic submanifolds II, *J. Math. Anal. Appl.*, 455 (2017), 1285-1296.
39. Yuxin Dong and **Y.-L. Ou**, Biharmonic submanifolds of pseudo-Riemannian manifolds, *Jour. Geom. Phys.*, 112(2017), 252-262.
38. **Y. -L. Ou**, ∞ -harmonic morphisms and ∞ -harmonic functions. *An. Stiint. Univ. Al. I. Cuza Iasi. Mat. (N.S.)*, Tomul LXIII, 2017, f. 2, 413-427.
37. Ze-Ping Wang, **Y.-L. Ou**, and Han-Chun Yang, Biharmonic maps from a 2-torus into a 2-sphere, *Chinese Ann. math. B*, 2017, to appear.

2016:

36. **Y. -L. Ou**, Some recent progress of biharmonic submanifolds, *Contemporary Math, AMS*, 674 (2016), 127-139.
35. Ze-Ping Wang, **Y.-L. Ou**, and Han-Chun Yang, Biharmonic maps and f -Biharmonic maps from a 2-sphere, *Jour. Geom. Phys.*, 104(2016), 137-147.

2015:

34. **Y. -L. Ou**, Biharmonic conformal immersions into 3-dimensional manifolds, *Mediterranean J. of Math*, 12 (2) (2015), 541-554.
33. N. Sirakov, **Y.-L. Ou** and M. Mete, Skin lesion feature vectors classification in models of Riemannian manifolds, *Annals of Mathematics and Artificial Intelligence*, 75 (2015), no. 1-2, 217-229.

2014:

32. **Y. -L. Ou**, On f -biharmonic maps and f -biharmonic submanifolds, *Pacific J. of Math*, 271-2 (2014), 461-477.
31. Ze-Ping Wang, **Y.-L. Ou**, and Han-Chun Yang, Biharmonic maps from and into 2-spheres, *Jour. Geom. Phys.*, 77 (2014) 86-96.

2013:

30. **Y. -L. Ou** and Sheng Lu, Biharmonic maps in two dimensions, *Annali di Matematica Pura ed Applicata*, (4) 192 (2013), no. 1, 127–144.

2012:

29. **Y. -L. Ou** and Liang Tang, On the generalized Chen's conjecture on biharmonic submanifolds., *Michigan Math. J.*, 61 (2012), 531-542.
28. **Y. -L. Ou**, Some constructions of biharmonic maps and Chen's conjecture on biharmonic hypersurfaces, *Jour. Geom. Phys.*, 62, (2012), 751-762.
27. **Y. -L. Ou**, T. Troutman, and F. Wilhelm, ∞ -Harmonic maps and morphisms, *Differential Geometry and its Applications*, 30 (2012), 164–178.
26. M. Mete, **Y. -L. Ou**, N. Sirakov, Skin Lesion Feature Vector Space with a Metric To Model Geometric Structures of Malignancy, R. P. Barneva et al. (eds): IWCIA 2012, Springer Lecture Notes in Computer Science 7655, 2012, 285–297.

2011:

25. Z.-P. Wang & **Y. -L. Ou**, Biharmonic Riemannian submersions from 3-manifolds, *Math Zeitschrift*, 269 (3) (2011), 917-925.
24. **Y. -L. Ou** and Z.-P. Wang, Constant mean curvature and totally umbilical surfaces in 3-dimensional geometries, *Jour. Geom. Phys.* 61 (2011) 1845-1853.

2010:

23. **Y. -L. Ou**, Biharmonic hypersurfaces in Riemannian manifolds, *Pacific Journal of Math*, 248 (1), (2010), 217-232.
22. E. Loubeau & **Y. -L. Ou**, Biharmonic maps and morphisms from conformal mappings, *Tohoku Math Journal*, Vol. 62 (1), (2010), 55-73.

2009:

21. **Y. -L. Ou**, On conformal biharmonic immersions, *Annals of Global Analysis and Geometry*, 36, 2009, 133-142.
20. Z.-P. Wang & **Y. -L. Ou**, Some classification of ∞ -harmonic maps, *Balkan Jour. Geometry and its Application*, 14(1), 2009, 120-131.

2008:

19. **Y. -L. Ou** & Z.-P. Wang, *Linear biharmonic maps into Nil, Sol, and Heisenberg spaces*, *Mediterranean Jour. Math*, 5 (4) (2008), pp. 379-394.

2007:

18. **Y. -L. Ou** & F. Wilhelm, Horizontally homothetic submersions and nonnegative curvature, *Indiana Univ. Math Jour.*, 56 (4) (2007), 243-261.

2006:

17. **Y. -L. Ou** & G. Walschap, A classification of horizontally homothetic submersion from space forms of nonnegative curvature, *Bull. London Math. Soc.*, 38 (2006), 485-493.
16. **Y. -L. Ou**, p -Harmonic morphisms, biharmonic morphisms, and nonharmonic biharmonic maps, *J. of Geom. and Physics*, 56(3) (2006), 358-374.

2005:

15. **Y. -L. Ou**, On p -harmonic morphisms and conformally flat spaces, *Math. Proc. Cambridge Phil. Soc.*, 139 (2) (2005), 317-332.

14. **Y. -L. Ou**, p -Harmonic functions and the minimal surface equation in a Riemannian manifold, *Illinois J. Math.*, 49(3) (2005), 911-927.

2004:

13. **Y. -L. Ou**, p -Harmonic morphisms, minimal foliations, and rigidity of metrics, *J. of Geom. and Physics*, 52(4) (2004), 365-381.
12. **Y. -L. Ou** and S. W. Wei, A classification and some constructions of P -harmonic morphisms, *Beiträge Algebra Geom.*, 45(2) (2004), 637-647.

Before 2004:

11. E. Loubeau and **Y. -L. Ou**, The characterizations of biharmonic morphisms, *Differential geometry and its applications*, 31–41, Math. Publ., 3, 2001.
10. **Y. -L. Ou**, Biharmonic morphisms between Riemannian manifolds, *Geometry and Topology of Submanifolds X*, World Sci. Publishing, NJ, 2000, 231-239.
9. P. Baird and **Y. -L. Ou**, Harmonic polynomial morphisms and Milnor fibrations, in “Harmonic morphisms, harmonic maps and the related topics” *Research Notes Math* 413, 61-66, Chapman & Hall, 2000.
8. **Y. -L. Ou**, Generalized Hopf constructions and eigenmaps between spheres, *Beiträge Algebra Geom.*, 40(1) (1999), 267-274.
7. **Y. -L. Ou**, Quadratic harmonic morphisms and O -systems, *Ann. Inst. Fourier*, 47(2) (1997), 687-713.
6. P. Baird and **Y. -L. Ou**, Harmonic maps and morphisms from multilinear norm-preserving mappings, *Internat. J. of Math.*, 8(2) (1997), 187-211.
5. **Y. -L. Ou** and J. C. Wood, On Classifications of quadratic harmonic morphisms between Euclidean spaces, *Algebras Groups Geom.*, 13(1996), 41-53.
4. **Y. -L. Ou**, Complete lifts of harmonic maps and morphisms between Euclidean spaces, *Beiträge Algebra Geom.*, 37(1) (1996), 31-40.
3. **Y. -L. Ou**, Quasiumbilical Einsteinnian hypersurfaces and conformally flat spaces, *Boll. Mate. Italiano*, 7-A (1993), 221-226.
2. **Y. -L. Ou**, Some remarks on the tangent sphere bundles of surfaces, *J. of Math. (P. R. China)*, 11(1) (1992), 49-52.
1. **Y. -L. Ou**, p -Harmonic morphisms, minimal foliations, and conformal deformations of metrics, Ph. D. thesis, University of Oklahoma, 2005.

Papers submitted for publication or in progress:

4. Y. Luo and **Y. -L. Ou**, *Some remarks on f -biharmonic maps and bi- f -harmonic maps*, preprint, 2018.
3. M. Akyol and **Y. -L. Ou**, *Biharmonic Riemannian submersions*, preprint, 2018.
2. S. Maeta and **Y. -L. Ou**, *Some classifications of biharmonic hypersurfaces in space forms*, arXiv:1708.08540, preprint 2017.
1. **Y. -L. Ou**, *Jacobi operators of biharmonic hypersurfaces and Chen’s conjecture on biharmonic hypersurfaces*, paper in preparation, 2017.

Reviewer and Referee Information

1. Reviewer of Mathematical Reviews, American Mathematical Society.
2. Reviewer of Zentrablatt Math, European Mathematical Society.

3. Referee papers for many international math journals including Proceedings of AMS, Bull. London Math Soc., Pacific Journal of Mathematics, Differential Geometry and its Applications, Annali di Matematica Pura ed Applicata, and Journal of Geometry and Physics.

Teaching Experience

- **Undergraduate Teaching and Advising:**

- ★ 08/2006-Present, Texas A & M University-Commerce, courses taught include: Pre-Calculus, Calculus I, II, III, Business Math II, College Algebra, Linear Algebra, Intro to Abstract Algebra, Diff. Equations, Discrete Math, and College Geometry.
- ★ 09/2005-06/2006, University of California, Riverside, Visiting Assistant Professor teaching Calculus of Several variables (Math 10B), Applied Linear Algebra (Math 113), and First Year Calculus (Math 009A, Math009B).
- ★ 08/2000-05/2005, University of Oklahoma, Graduate Teaching Assistant teaching regular courses including Pre-calculus, Calculus I, II, III, and IV, Discrete Math, and Business Calculus II.
- ★ 02/1986-07/2010, Guangxi University for Nationalities, China. Duties included directing undergraduate research and teaching undergraduate courses: Analytic Geometry, Ordinary Differential Equations, Differential Geometry of Curves & Surfaces, and Special English for Mathematics Students.

- **Graduate Teaching and Advising:**

- ★ 2007-present: teaching M.S. courses at Texas A & M University-Commerce: Differential Geometry, Abstract Algebra I, II, Foundation of Analysis, Intro. to Real Analysis I, II, and Calculus of Variations and its Applications; advising M.S. graduate students: B. Ghimire, P. Nalla, John M. Casellas, Xuexin Jin, Shen Lu.
- ★ 1997-2000: teaching M.S. courses at Guangxi Univ. for Nationalities, China: Differentiable Manifolds, Topology, and Introduction to Riemannian Geometry. Thesis advisors for 7 graduate students: Wei Yang, Wei-Jun Lu, Ron-Zhang, Ze-Ping Wang, Ping-Ping Li, Sheng Lu, and Liang Tang.

Other University Services and Memberships

- ★ Organizer, Math Department Colloquium, 2009-2013, inviting speakers, organizing and chairing 48 talks.
- ★ Faculty Senator, Texas A & M Commerce, May, 2013.
- ★ Chair of the Search Committee for Math tenure-track faculty, Sp 2012.
- ★ Chair of the Search Committee for Math Ed tenure-track faculty, Su 2012.
- ★ Chair of the Search Committee for Math Department Secretary, Sp 2013.
- ★ Chair of the Search Committee for Math tenure-track faculty, Oct. 2013.
- ★ Member, Search Committee of the Dean of College of Science and Engineering, Su 2014.
- ★ Chair of the Search Committee for Math tenure-track faculty, Jan. 2015.
- ★ Member, American Mathematical Society.
- ★ Member, Mathematical Association of America.

Some Recent Invited Talks

2018:

- 56. 06/22/2018, Wuhan University, Math Seminar, “Conformal biharmonic maps and the related topics”.
- 55. 05/26/2018, Fudan University, Geometry Seminar, “Some recent work on conformal biharmonic maps”.
- 54. 04/26/2018, Purdue University PDE Seminar, “Biharmonic maps with geometric constraints”.
- 53. 03/13/2018, Dongbei University of Financial and Economics, Math Colloquium “Some problems and progress on biharmonic maps”.

2017:

- 52. 09/28/2017, Princeton University Geometry Learning Seminar, “Some recent work on biharmonic conformal maps”.
- 51. 05/18/2017, International workshop on harmonic maps and the related topics, “Some recent work on f-biharmonic maps and f-biharmonic submanifolds”.

2016:

- 50. 05/31/2016, Fudan University Geometry Seminar, “Some recent work on biharmonic and f-biharmonic maps”.
- 49. 06/17/2016, Shenzhen University, Math colloquium, “Some recent progress on biharmonic maps and biharmonic submanifolds”.
- 48. 02/15/2016, Texas A & M-Commerce Math Colloquium, “Some recent work on biharmonic conformal immersions”.

2015:

- 47. 10/21/2015, “Some results on biharmonic pseudo-Riemannian submanifolds” invited talk on geometry seminar at School of mathematical Science, Fudan Univ., China.
- 46. 08/06/2015, International Conference on Geometric and nonlinear Analysis, Xinyang Normal University, China, “Some recent work on biharmonic and f-biharmonic maps”, invited lectures.
- 45. 03/14/2015, AMS Sectional Meeting at Michigan State Univ., “Some recent work on biharmonic submanifolds and biharmonic maps”, invited talk.

2014:

- 44. 07/19/2014, Joint Meeting of Math Associations of HongKong and Yunnan Province, “Some recent progress on Chen’s conjecture of biharmonic submanifolds”, invited talk.
- 43. 08/25/2014, Yunan University, China, “Some basic ideas of differential geometry”, invited lecture.

2013:

- 42. 11/03/2013, AMS Special Sectional Meeting on “Geometric Analysis”, Univ. of California, Riverside, invited talk on “Some recent progress on the study of biharmonic maps and biharmonic submanifolds”.
- 41. 08/01/2013, Yunan University, China, “Some recent progress on the geometry of biharmonic maps”.
- 40. 07/08/2013, Dalian University of Technology, China, “Some recent progress on the geometry of biharmonic maps”.
- 39. 04/05/2013, Texas Christian University, invited lecture on “Frank Stones Memorial Colloquium”, “From minimal surface to harmonic maps and biharmonic submanifolds”.

2012:

- 38. 11/29/2012, The University of Oklahoma, invited talk on “Karchur Colloquium”, “Some recent work on biharmonic maps and submanifolds”.
- 37. 10/22/2012, Texas A & M Commerce. Math Colloquium, invited talk: From minimal surfaces to biharmonic submanifolds.
- 36. 06/12/2012, Fudan University, China, invited lecture, “Some recent work on biharmonic maps”.

2011:

- 35. 10/26/2011, Texas A & M Commerce. Math Colloquium invited talk: Some Recent Progress in the study of Biharmonic maps.
- 34. 06/04/2011, The Chinese National Conference on “Integral & Differential Equations and their Applications”, invited talk. Guangxi Univ. For Nationalities, China.
- 33. 05/13/2011, International Conference on “Recent development on L-infinity variational problems and associated nonlinear partial differential equations”, invited contributed talk, Kentucky University, USA.
- 32. 04/08/2011, Texas Christian University, invited Lecture, “On the geometry of biharmonic maps”.

2010:

- 31. 06/16/2010, Fudan University, invited talk “The geometry of biharmonic maps and submanifolds”.
- 30. 06/15/2010, Zhejiang University, China, invited talk “The generalized Chen’s conjecture on biharmonic submanifolds”.
- 29. 06/13/2010, The Chinese Mathematical Society-Guangdong-Guangxi-Hunann Regional Conference, invited talk “The geometry of biharmonic maps and submanifolds”, Changsha, China.
- 28. 06/08/2010, Fujian Normal University, invited talk “The generalized Chen’s conjecture on biharmonic submanifolds”, China.

2009:

- 27. 11/2009, American Mathematics Society Special Section on Global Riemannian Geometry, UC, Riverside, USA.
- 26. 10/2009, Math Colloquium, Texas A & M Univ. Commerce, USA.

2008:

- 25. 06/2008, Math Colloquium, Guangxi Univ. for Nationalities, P.R. China.
- 24. 02/2008, Physics Colloquium, Texas A & M Univ. Commerce, USA.

2007:

- 23. 05/2007, Differential Geometry Seminar, Univ. of California, Riverside, USA.
- 22. 02/2007, Math Colloquium, Texas A & M Univ. Commerce, USA.

2006:

- 21. 10/2006, Math Colloquium, Texas A & M Univ. Commerce, USA.
- 20. 02/2006, Differential Geometry Seminar, Univ. of California, Irvine, USA.
- 19. 01/2006, Differential Geometry Seminar, Univ. of California, Riverside, USA.

Before 2006:

- 18. 10/2005, Differential Geometry Seminar, UC Riverside, USA.

17. 04/2005, American Mathematics Society Special Section on Differential Geometry and its applications, Texas, USA.
16. 10/2004, American Mathematics Society Special Section on Interactions in Riemannian Geometry, Albuquerque, USA.
15. 04/2004, Mathematical Association of America Regional Special Section on Analysis, Arkansas, USA.
14. 2004, Topology Seminar, University of Oklahoma, USA.
13. 2004, Graduate Seminar, University of Oklahoma, USA.
12. 2003, Topology Seminar, University of Oklahoma, USA.
11. 2003, Graduate Seminar, University of Oklahoma, USA.
10. 2002, Topology Seminar, University of Oklahoma, USA.
9. 2001, Graduate Seminar, University of Oklahoma, USA.
8. 2000, Graduate Seminar, University of Oklahoma, USA.
7. 08/1999, International conference on differential geometry, Beijing, China.
6. 05/1999, Math Colloquium, International Center for Theoretic Physics, Trieste, Italy.
5. 11/1998, International Chinese Mathematician Conference, Beijing, China.
4. 07/1997, International conference on harmonic morphisms, harmonic maps, and the related topics, Brest, France.
3. 02/1996, Geometry Seminar, Univ. Libre de Bruxelles, Belgique.
2. 01/1996, Geometry Colloquium, University of Brest, France.
1. 10/1995, "Leeds Geometry Day", University of Leeds, UK.