CURRICULUM VITAE
Ye-Lin Ou (4/2023)

Mailing Address

Department of Mathematics

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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

15. Visiting Research Fellow, School of Mathematical Science, Fudan University, Shanghai, 05/15-06/15, 2018.
14. Visiting Research Fellow, University of Brest, France, 05/18-06/18, 2017.
13. Collaboration Grant for Mathematicians, Simons Foundation, 2016
12. Visiting Research Fellow, School of Mathematical Science, Fudan University, Shanghai, 05/17-06/17, 2016.
11. Visiting Scholar, Shanghai Center for Mathematical Science, 09/01–10/30, 2015.
10. The geometry of biharmonic maps and biharmonic submanifolds, NSF of Guangxi, P. R. China, 2011-2014.
9. Natural Science Foundations of Guangxi Province, P. R. China, 2000-2003.
8. "Foundations for Young Talents of the New Century", the Government of Guangxi Province, China, 1999-2002.
7. Natural Science Foundations of Guangxi Province, China, 1996-1998.
6. Visiting Mathematician Fellowship, International Center for Theoretical Physics, Italy, 1999.
5. Visiting Research Fellowship, University of Brest, France, 1999.
4. Visiting Research Fellowship, University of Brest, France, 1997.
3. Visiting Research Fellowship, University of Brest, France, 1996.
2. Visiting Research Fellowship, International School for Advanced Studies, Italy, 1991.
1. Senior Abroad-Visiting (one-year) Fellowship, the National Education Department of China, 1995.

Selected Research Publications

2023:

53. **Y. -L. Ou**, *Some classifications of conformal biharmonic and k-polyharmonic maps*, Front. Math 18, 1-15 (2023). https://doi.org/10.1007/s11464-021-0284-3.

2022:

52. **Y. -L. Ou**, *Bi-eigenfunctions and biharmonic submanifolds in a sphere*, J. Geom. Phys., Vol. 180, 2022, https://doi.org/10.1016/j.geomphys.2022.104621.2022.

2021:

51. Y. Fu, S, Maeta, and **Y. -L. Ou**, *Biharmobnic hypersurfaces in product spaces*, Math. Nachr. 294 (2021), no. 9, 1724-1741.

50. **Y. -L. Ou**, *Stability and the index of biharmonic hypersurfaces in a Riemannian manifold*, Annali Mate. Pura Appli., 2021. http://link.springer.com/article/10.1007/s10231-021-01135-0

2020:

49. **Research Book**: **Ye-Lin Ou** and B. -Y. Chen, "Biharmonic submanifolds and biharmonic maps in Riemannian Geometry", **World Scientific Publishing Co Pte Ltd**, May 2020.

48. **Y. -L. Ou**, *Some recent work on biharmonic conformal maps*, Contemporary Mathematics Volume 756 (2020), 195-205.

47. **Y. -L. Ou**, *A note on equivariant biharmonic maps and stable biharmonic maps*, J. Math. Anal.Appl. 491(2020)124-301.

46. S. Maeta and **Y. -L. Ou**, *Some classifications of biharmonic hypersurfaces in space forms*, Pacific J. Math, Vol. 306 (2020), No. 1, 281-290.

2019:

45. Y. Luo and **Y. -L. Ou**, *Some remarks on f-biharmonic maps and bi-f-harmonic maps*, Results Math (2019) 74: 97. https://doi.org/10.1007/s00025-019-1023-x.

44. M. Akyol and **Y. -L. Ou** Biharmonic Riemannian submersions, *Annali di Mate. Pura ed Appl.*, 198 (2019), 559-570.

2018:

43. E. Ghandour and **Y. -L. Ou**, Generalized harmonic morphisms and conformal biharmonic maps, *J. Math. Anal. Appl.*, 464 (2018), 924-938.

42. Ze-Ping Wang, **Y.-L. Ou**, and Han-Chun Yang, Biharmonic maps from a 2-torus into a 2-sphere, *Chinese Ann. math. B*, 39(5), 2018, 861-878.

41. **Y. -L. Ou** , Corrigendum to "Some constructions of biharmonic maps and Chen's conjecture on biharmonic hypersurfaces", J. Geom. Phys., 134 (2018), 209-211.

40. P. Baird and **Y. -L. Ou**, Biharmonic conformal maps in dimension four and equations of Yamabe-type, *J. Geom. Anal.*, 28(4) (2018), 3892-3905.

2017:

39. **Y. -L. Ou**, *f*-Biharmonic maps and *f*-biharmonic submanifolds II, *J. Math. Anal. Appl.*, 455 (2017), 1285-1296.

38. Yuxin Dong and **Y.-L. Ou**, Biharmonic submanifolds of pseudo-Riemannian manifolds, *Jour. Geom. Phys.*, 112(2017), 252-262.

37. **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.

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, *Medierranean 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:

1. R. Ambrosie, C. Oniciuc, **Y. -L. Ou**, *Biharmonic homogeneous polynomial maps between spheres*, preprint 2022, arXiv:2205.13175.

Some Recent Invited Talks and Lectures

2021:

15. 09/02/21: "Some new results on conformal biharmonic maps", International Workshop on harmonic maps, biharmonic maps and the related topics, Vienna Univ. Austria.

14. 06/28/2021, Ege Geometry Day, "Some geometric aspect of biharmonic maps", Ege University & The Turkish Society of Geometers.

2020:

13. 04/08/2020, Univ. California, Irving, Math Seminar, "Some study of biharmonic maps and submanifolds since 2000".

2018:

12. 06/22/2018, Wuhan University, Math Seminar, "Conformal biharmonic maps and the related topics".

11. 05/26/2018, Fudan University, Geometry Seminar, "Some recent work on conformal biharmonic maps".

10. 04/26/2018, Purdue University PDE Seminar, "Biharmonic maps with geometric constraints".

9. 03/13/2018, Dongbei University of Financial and Economics, Math Colloquium"Some problems and progress on biharmonic maps".

2017:

8. 09/28/2017, Princeton University Geometry Learning Seminar, "Some recent work on biharmonic conformal maps".

7. 05/18/2017, International workshop on harmonic maps and the related topics, "Some recent work on f-biharmonic maps and f-biharmonic submanifolds".

2016:

6. 05/31/2016, Fudan University Geometry Seminar, "Some recent work on biharmonic and f-biharmonic maps".

5. 06/17/2016, Shenzhen University, Math colloquium, "Some recent progress on biharmonic maps and biharmonic submanifolds".

2015:

4. 10/21/2015, "Some results on biharmonic pseudo-Riemannian submanifolds" invited talk on geometry seminar at School of mathematical Science, Fudan Univ., China.

3. 08/06/2015, International Conference on Geometric and nonlinear Analysis, Xinyang Normal University, China, "Some recent work on biharmonic and f-biharmonic maps".

2. 03/14/2015, AMS Sectional Meeting at Michigan State Univ., "Some recent work on biharmonic submanifolds and biharmonic maps".

2014:

1. 07/19/2014, Joint Meeting of Math Associations of HongKong and Yunnan Province, "Some recent progress on Chen's conjecture of biharmonic submanifolds".